Indian Journal of Chemistry

U. I. C. C. AUG 22 1975 LIBRARY

Volume 12, 1974



COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH
NEW DELHI

Indian Journal of Chemistry

Hill SI gooday

COUNCIL OF SCIENTIFIC & BULLIA RESCANCE

ERRATA

Paper "Conjugate addition of lithium dimethyl copper to enol ethers & esters of β-diketones", 12 (No. 3) (1974), pp. 325-26. The correct structure (V) in Scheme 1 is given below:

Paper "A new interaction potential for alkali halides", 12 (No. 4) (1974), pp. 376-78. Eq. (5) should be read as:

$$F = -e^2/r^2 + 2Cp/r(2r^2 + p)$$

In this equation Cp is not the specific heat at constant pressure, but the product of the parameters C and p. In Eq. (4), the term C log 2 simulates the combined effects of all those terms which are independent of internuclear separation occurring in the expression for the total potential energy of an ion-pair (see ref. 1 of the paper).

Paper "Chemical components of *Cyathea spinulosa* leaves", **12** (No. 7) (1974), pp. 783-84. In the title *Cyathea* should be read as *Cyathea*. On page 783, para 1, line 11, fermones should be read as fernenes. Same para, last line should be corrected to:

A direct comparison (m.m.p., IR, TLC) with an authentic sample of fern-9(11)-ene established its identity.

Indian Journal of Chemistry

COLLIER CLIENTIUMI'S DISTRINGE TO SIGNOOS

INDEX

	PAGE		PAGE
ABBADY, M. A. Sée OSMAN, A. M	48	Adsorption isotherms: Adsorption isotherms of	
ABDEL RASSOUL, A. A. see Sherif, M. K	712	ammonia on carbons: Effect of surface oxygen	
ABDUL QAYUM see RAMANA MURTI, M. V	1308	complexes	1183
ABED, NOSRAT see KHALIFA, MOHAMED ALI	=((ADITYACHAUDHURY, N.: Investigation on the	1207
ABOU-ROMIA, MALAK M.: Electrical double	566	coumarins of Selenium tenuifolium ADVANI, B. G. see RAJAPPA, S	1327
layer capacity & adsorption phenomenon of	· Marie and	ADYA, ASHOK K.: Standard electrode potential	1, 1
methanol on lead dioxide	1180	of the formation cell Ag/Ag ₂ SO ₄ (c)/SO ₃ (g),	
ABRAHAM, E. M. see Kasturi, T. R	1123	$O_{\alpha}(g)$. Pt	1001
Acenaphthenequinonemonoxime as a new		Theoretical e.m.f. for galvanic cells con-	
selective reagent for the determination of Pd(II)	110	taining a single solid or molten Ag(I), Li(I), Na(I), K(I), Mg(II), Ca(II), Ba(II)	
Acenaphthenequinonemonoxime as a	110	& Tl(I) nitrates as electrolytes	748
spectrophotometric reagent for rapid		Aeginetia indica: Chemical investigation of	
determination of cobalt	221	Aeginetia indica Linn.: Part II — Structures	412
Acetic acid: Kinetics of oxidation of α -picoline by Ce(IV) in acetic acid	421	of aeginetic acid & aeginetolide Part III — Isolation of polyenes	413
Kinetics of permanganate oxidation of	721	Aeginetic acid: Chemical investigation of	141
benzaldehyde & its derivatives in water/		Aeginetia indica Linn.: Part II — Structures	
acetic acid mixtures	307	of aeginetic acid & aeginetolide	413
New redox titrants in non-aqueous &		Aeginetolide: Chemical investigation of Aeginetia indica Linn.: Part II — Structures	
partially aqueous media: Part IV— Potentiometric titrations using iodo-		of aeginetic acid & aeginetolide	413
benzene dichloride in acetic acid		Ag+: Activity & activity coefficient of Ag+ in	
medium	645	aqueous polyelectrolyte solutions	.87
Acetoacetamides: Nitration of the beryllium	100	Ag(I): Complexes of 2-hydroxy-1-mercapto-	
chelates of N-substituted acetoacetamides	189	pyrimidine with Zn(II), Cd(II), Hg(II), Tl(I), Pb(II), Ag(I) & Au(III)	1096
Acetoacetanilide: Chemistry of lanthanons: Part XXXIX — Acetoacetanilide complexes		AGARWAL, H. P.: AC polarographic reduction	1030
of lanthanons	1320	of some heterocyclic compounds	84
Acetonitrile: Solvolytic equilibria in methanol		AGARWAL, NARESH K.: Ionization constants of	
& acetonitrile of some dioxouranium(VI)	077	some 1,5-disubstituted 2,4-dithiobiurets at	874
complexes with hexamethyl phosphoramide 3\(\beta\)-Acetoxy-5\(\alpha\)-cholestan-6-one: \(\alpha\)-Bromination	977	different temperatures AGARWAL, S. K.: Celsiogenin-C, a new genin	0/4
of 3β-acetoxy-5α-cholestan-6-one	452	from celsiosides isolated from Celsia coroman-	
3β-Acetoxy-6-oxa-B-homocholest-4-en-7-one:		deliana Vahl	907
3β-Acetoxy-6-oxa-B-homocholest-4-en-7-one	4==	Chemical constituents of Celsia caroman-	204
& related compounds	455	deliana Vahl Synthesis & stereochemistry of 3-arylidene-	304
N-Acetyl-N-phenacyl aromatic amines: Temperature dependent magnetic non-equivalence			427
of methylene protons in N-acetyl-N-phenacyl		AGARWALA, U. see KHULLAR, I. P	1096
aromatic amines	410	Agave vera-cruz: Steroidal sapogenins from	400
ACHARI, B.: Studies on Indian medicinal plants:		Agave vera-cruz Mill Ageratum conyzoides: Essential oil of Ageratum	429
Part XXXI — N-Benzoyl-L-phenylalaninol from Alangium lamarckii	1218	conyzoides — Transformation of 7-methoxy-2,	
Acrylic acid: Reaction of dimethyl- & di-		2-dimethylchromene to 2',4'-dimethoxy-1-	
chloroanilines with acrylic & methylacrylic	0.51	dehydroisovalerophenone & its dihydro	1102
ADHIKARI, M.: Bi-ionic potential measurements	351	derivative	1123 986
across Cu-resin, Cu-H-clay & mixed oxalate		Ag(I) nitrate: Theoretical e.m.f. for galvanic	300
	999	cells containing a single solid or molten Ag(I),	
membranes ADHIKARI, S. K. see SENGUPTA, A. K	1001	Li(I), Na(I), K(I), Mg(II), Ca(II), Ba(II) &	740
ADINARAYANA, D.: Synthesis & study of 3'-O-	911	Tl(I) nitrates as electrolytes AGRAWAL, D. R. see SHUKLA, J. P	748 534
methylorobol	911	AGRAWAL, M. C. see RAM SANEHI	311
fluoride with dialkyl esters of oxalic, succinic,		AGRAWAL, Y. K. see Shukla, J. P	534
malonic & adipic acids	982	AHLUWALIA, V. K.: Nuclear allylation of 5,7-	477
ADNAN, SYED SAJJAD ZAHEER: Some observa-		dihydroxy-2-methylchromone	471
tions on the stability of benzene-silver perchlorate	416	AHMAD, M. S.: 3\(\beta\)-Acetoxy-6-oxa-B-homocholest-4-en-7-one & related compounds	455
perchlorate β-Adrenoceptor blocking agents: β-Adrenoceptor	120	Azasteroid from 3\beta-chlorocholest-5-en-7-	117
blocking agents: Part I — Phenoxypropanol-		one	1323
amines & phenethanolamines carrying groups	1021	α-Bromination of 3β-acetoxy-5α-cholestan-	452
capable of strong bonding	1021	6-one	732
			1329

	PAGE		PAGE
Reaction of 4-bromocholest-4-en-3-one with		Althaea rosea: Chemical examination of local	
hydrazoic acid	580	plants: Part XI — Comparative study of the	
AHMAD, S. AZIZ: Flavones from Colebrookia oppositifolia	1327	constituents of different parts of Egyptian Althaea rosea	1019
Анија, I. S.: Preparation & spectroscopic stu-	1341	Althaea rosea Aluminium: N,N-Diethylamino-oxy derivatives	1019
dies on 4,4'-bipyridine complexes with Co(II),		of boron & aluminium	218
Ni(II), Zn(II), Cd(II), & Hg(II) thio-		Aluminium-bronze powder: Pyrolysis of chal-	
cyanates	107	kone in the presence of aluminium-bronze	
AHUJA, M.: Benzylation of phloroacetophenone	26	powder	1014
& resacetophenone acetates Claisen migration in substituted 4-phenyl-	26	Aluminium chloride: Friedel-Crafts chemistry: Part VI — Reaction of 1-chloro-3-methyl-3-	
coumarins	292	p-tolylbutane with aluminium chloride cata-	
Claisen migration of 7-O-prenylchrysin	1131	lyst in carbon disulphide & petroleum ether	
AJIT SINGH: Diterpene alkaloids: Structure of		solvents	476
vakognavine	1219	Aluminium soaps: Studies on aluminium soaps	
AKHNOOKH, Y. see ZAHER, H. A AKRAWI, B. A. see SHAWALI, A. S	1212 1074	& their gels ALY, H. F. see SHERIF, M. K	96 712
Akrawi, B. A. see Shawali, A. S Ala-7-decapeptide: Synthetic substitute en-	1074	ALY, H. F. see SHERIF, M. K AMER, F. A. K. see OSMAN, A. M	120
zymes: Part VI — Synthesis & glycosidase		Amines: Behaviour of 3-styryl-2H-1,4-benz-	120
activity of Glu-Phe-Ala-Ala-Glu-Glu-Phe-		oxazin-2-ones towards amines, hydrazines &	
Ala-Ser-Phe & analogous Ala-7-decapeptide	464	Grignard reagents	566
Alangium lamarckii: Studies on Indian medi-		Donor-acceptor complex of biacetyl with	E04
cinal plants: Part XXXI — N-Benzoyl-L-phenylalaninol from Alangium lamarckii	1218	aliphatic amines Amino acids: Studies on conformation of amino	524
Alanine: Studies on conformation of amino	1210	acids: Quantum chemical calculations on	
acids: Quantum chemical calculations on		alanine & aminobutyric acid	805
alanine & aminobutyric acid	805	α-Amino acids: Reactions of 3-benzalphthalide	3000
α-Alanine: Evaluation of stability constants		& 3-benzalnaphthalide with α-amino acids	1031
from polarographic data of irreversible pro- cesses: Mixed complexes of zinc with glycine		Aminoalkyldibenz $[b,f]$ [1,4] oxazepin-11 (10H)-ones: Condensed heterotricycles: Amino &	
& a-alanine	868	aminoalkyldibenz[b,f] [1,4] oxazepin-11 (10H)-	
ALI, M. M. see BADR, M. Z. A	1215	ones	236
ALKADY, M. see SAMMOUR, A	51	3-Amino-5-alkylimino-4-aryl-1,2,4-Δ²-thiadiazo-	
Alkali halides: A new interaction potential for	256	lines: Oxidation of mixtures of thiocarba-	
alkali halides	376	mides: Part II — Oxidation of mixtures of	
Alkali metal halides: Solubilities of some tetra- alkylammonium & alkali metal halides in		1-alkyl-3-arylthiocarbamides & thiocarbamide: Formation of 3-amino-5-alkylimino-	
dimethyl sulphoxide	618	4-aryl-1,2,4- Δ^2 -thiadiazolines	962
Alkanamides: Diphenylamino-alkanamines, alka-		Aminobutyric acid: Studies on conformation of	
namides & ω-amino-N,N-diphenylalkanamides	24	amino acids: Quantum chemical calculations	
as potential biodynamic agents	31	on alanine & aminobutyric acid	805
Alkoxy-silanes: Organosilicon derivatives of terpene alcohols: Part I — Reactions of		Aminodibenz [b,f] [1,4] oxazepin-11(10H) ones: Condensed heterotricycles: Amino & amino-	
citronellol (3,7-dimethylocten-1-ol) & geraniol		alkyldibenz $[b,f][1,4]$ oxazepin-11(10H)-ones	236
(3,7-dimethyl-2,6-octadien-1-ol) with chloro-		N-Amino-9, 10-dihydroanthracene-9, 10-endo-a-	
& alkoxy-silanes	1099	methyl-α,β-succinimide: Conformational ana-	
Alkyl acetates: Structural & solvent effects on		lysis about N-N' bond by NMR spectro-	
the alkaline hydrolysis of alkyl acetates in protic & dipolar aprotic solvents	597	scopy: N'-Derivatives of N-amino-9,10-di- hydroanthracene-9, 10-endo-α-methyl-α, β-suc-	
Alkyl aryl ethers: Photochemical rearrange-	371	cinimide	586
ment of alkyl aryl ethers	1215	ω-Amino-N, N-diphenylalkanamides: Diphenyl-	
1-Alkyl-3-arylthiocarbamides: Oxidation of		amino-alkanamines, alkanamides & ω-amino-	
mixtures of thiocarbamides: Part II — Oxi-		N,N-diphenylalkanamides as potential bio-	21
dation of mixtures of 1-alkyl-3-arylthiocarba- mides & thiocarbamide: Formation of 3-amino-		dynamic agents Aminophenols: Infrared spectra & molecular	31
5-alkylimino-4-aryl-1,2,4- Δ^2 -thiadiazolines-	962	structure: Part IV — Aminophenols	1309
4-Alkylchrom-3-enes: A new synthesis of 4-		2-Aminothiophene-3-carboxylic acids: Syn-	
alkyl (or aryl)chrom-3-enes	1256	thesis of thiophenes: Part IV — Synthesis	
Alkyldithiocarbamate: Symmetrical & un-		& reactions of some 2-aminothiophene-3-	
symmetrical alkyldithiocarbamate complexes of Sn(IV) halides & Ce(IV) chloride	1197	carboxylic acids Ammonia: Adsorption isotherms of ammonia	4
of Sn(IV) halides & Ge(IV) chloride Alkyltin triisopropoxides: Organic derivatives	1177	on carbons: Effect of surface oxygen	
of tin: Part VII — Reactions of alkyltin tri-		complexes	1183
isopropoxides with bidentate ligands	399	complexes Reactions of 2-p-anisyl-3(4H), 1-benzoxa-	
Allyl chloride: Kinetics of reactions of thio-		zin-4-one with ammonia, primary amines,	
benzyl chloride in ethanol	969	hydrazine, phenylhydrazine & Grignard reagents	1212
benzyl chloride in ethanol	,0,	reagents · ·	1414

	1,101		1 2101

Ammonium acetate: Condensation of 3-carbe-		Antimony(III): Kinetics & mechanism of	
thoxycoumarin with ketones in the presence of ammonium acetate or amines	51	electron transfer reactions of aquo & coordinated thallium(III): Part VI — Reduction of	
Anacardium occidentale nuts: Structure of the		chlorothallium(III) complexes by antimony	
shell polysaccharide from cashewnuts (Ana-	600	(III) Aprotic solvents: Relative acidities of phenols	10
cardium occidentale nuts) Anand Kumar: Studies on stepwise complex	680	in aprotic solvents: Relative acidities of phenols	38
formation of Pb(II) with oxalate by ampero-		in aprotic solvents ARAVAMUDAN, G. see SEJEKAN, B. G	53
metric technique	538	see Venkappayya, D	52
Anand, Nitya see Ananthanaraynan,	31	Aromatic anion radicals: ESR studies of aromatic anion radicals in binary solvent	
C. V see Dikshit, D. K	1144	mixtures	131
see GUPTA, C. M	674 543	Arsenic: Complexes of metal ions with phos-	
see Jain, P. C	1021	phorus or arsenic containing ligands: Part XVI — Complexes of ditertiaryphosphines/	
see MUKERIEE, YATINDRA N	331	arsines with ruthenium(II) dicarbonyl	
see Munshi, K. L see Rao, V. Aruna	336 425	dihalides	83
see RASTOGI, SHRI NIVAS	207	arsenic(III) with potassium dichromate using	
see Saxena, Anil K	892	diphenylamine & diphenylbenzidine as redox	
ANANTAKRISHNAN, SEKHARIPURAM V.: Studies		indicators	20
in oxidation: Part XVI — Mechanism of oxidation of aromatic hydrocarbons by		Arsine oxides: Complex of ditertiary phosphine/ arsine oxides with metal ions: Part VII—	
chromium(VI)	373	Complexes of La(III), Nd(III) & Sm(III)	
ANANTHANARAYANAN, C. V.: Diphenylamino-		nitrates with oxides of ethylene-1,2-bis-di- phenylphosphine/arsine & butylene-1,4-bis-	
alkanamines, alkanamides & ω-amino-N,N-di- phenylalkanamides as potential biodynamic		diphenylphosphine/arsine	110
agents	31	Arsines: Iodimetric determination of arsines &	
Aniline: Kinetics of reaction of 4,6-dihalo-1,3-dinitrobenzenes with aniline	510	their complexes in methanol Artocarpus heterophyllus: Colourless compo-	131
Peroxydisulphate oxidations: Part VI—	310	nents of the roots of Artocarpus heterophyllus:	
Identification of oxidation products of	.=.	Isolation of a new compound, artoflava-	3
aniline & substituted anilines Anilines: Complexes of Ge(IV) & Sn(IV) halides	656	none Artoflavanone: Colourless components of the	89.
with substituted anilines	429	roots of Artocarpus heterophyllus: Isolation of	
Anilinium fluorides: Fluoro complex salts of		a new compound, artoflavanone	89.
thorium(IV) with methyl- & ethyl-ammonium fluorides, pyridinium, substituted pyri-		ARUMUGAM, N.: Stereochemistry of the nitrosyl	20
dinium, quinolinium & anilinium fluorides &		chloride adduct from 1-phenylcyclohexene Synthesis of 7,8-benzophenanthridines	32: 664
ethylenediammonium & o-phenylenediam-	1202	ARUNACHALAM, M. K.: Analytical application	110
monium fluorides Anionic complexes: Solvent extraction of anionic	1302	of potassium γ-thiobenzopyrone-α-thiolate	219
complexes of Be into ion-association systems	1318	Potassium γ-thiobenzopyrone-α-thiolate as an analytical reagent for Ni(II)	1000
2-p-Anisyl-3(4H), 1-benzoxazin-4-one: Reac-		1-Arylamino-3-alkanols: Synthesis of hetero-	
tions of 2-p-anisyl-3(4H), 1-benzoxazin-4-one with ammonia, primary amines, hydrazine,		cyclic compounds: Part XII — Cyclodehy-	100
phenylhydrazine & Grignard reagents	1212	dration of 1-arylamino-3-alkanols 5-Arylazo-4-hydroxy-1-arylpyrazole-3-carbox-	1234
ANJANEYALU, Y. V. see THARANATHAN, R. N.	1164 270	anilides: Tautomerism in analogs of potential	
Anjaneyulu, B. see Nagarajan, K Ansari, G. A. S. see Ahmad, M. S	455	antidiabetics: 5-Arylazo-4-hydroxy-1-aryl-	200
Anthocephalus cadamba Miq.: Cadambagenic		pyrazole-3-carboxanilides 4-Arylchrom-3-enes: A new synthesis of 4-alkyl	298
acids: A new triterpenic acid from Antho- cephalus cadamba Miq	284	(or aryl)chrom-3-enes	1250
Anthoxanthins: Part XXI — Stereospecific syn-	201	2-Arylhydrazones: Cyclodehydration of o-hy-	149
thesis of 3-halogenoflavanones & their reduc-	1101	droxyphenylglyoxal 2-arylhydrazones 3-Arylidenecarissones: Synthesis & stereo-	139
Antiamoebic agents: Studies in antiamoebic	1134	chemistry of 3-arylidenecarissones	42
agents: Syntheses of substituted indophena-		3-Arylisocoumarin: 3-Arylisocoumarin: Syn-	
zines, azaindophenazines & azaquinoxalines	124	thesis of 3-(3',4'-dimethoxyphenyl)-6,7-dime-	474
Antibacterials: Preparation of optically active hydantoins as potential antibacterials	1211	thoxyisocoumarin Aryllithiums: Action of Grignard reagents &	4/2
Anticancer agents: Studies in anticancer agents:		aryllithiums on 6-hydroxy-4-methoxy- & 6-	
Syntheses of substituted indazolequinones,	400	hydroxy-4,7-dimethoxy-5-arylacryloyl-benzo-	660
2-oxophenazines & azaphenazines Antifertility agents: Part IX — Synthesis of	129	[b]furans N-Arylmaleimides: Diels-Alder reaction: Addi-	668
2,3,4-triphenylfurans & 2,3,4-triphenyl-5-		tion of N-arylmaleimides to 1,1-diarylethyl-	
methylfurans	1144	enes & 1,1-diaryl-2-bromoethylenes	481

Asbestos: Adsorption of methylene blue, crystal		Photochemical rearrangement of alkyl	
violet & malachite green on bentonite, vermi-	1107	aryl ethers	1215
culite, kaolinite, asbestos & feldspar Ashok Kumar see Rao, A. L. J	1187 542	BADRINARAYANAN, S.: Mass dependence for the impurity diffusion of cobalt in silver	702
ASHWINI KUMAR see RASTOGI, R. P	1280	BAG, S. P.: Gravimetric determination of Cd(II)	.02
l-Asparagine: Infrared spectra of some bivalent		with N-benzoylphenylhydroxylamine	1317
metal chelates of <i>l</i> -asparagine & <i>l</i> -glutamine	527	BAHL, C. P.: Components of Bergenia strecheyi	1029
Asphodelus tenuifolius Cav.: Structure of an ester from the seeds of Asphodelus tenuifolius Cav.	1325	& B. ligulata BAJAJ, P.: Organosilicon derivatives of terpene	1038
ATA, F. M. see Osman, A. M	1019	alcohols: Part I — Reactions of citronellol	
see Younes, M. El-Garby	1019	(3,7-dimethylocten-1-ol) & geraniol (3,7-di-	
ATCHAYYA, M.: A new polarographic method for the computation of formation constants of		methyl-2,6-octadien-1-ol) with chloro- &	1099
chelates formed from electroactive ligands	633	alkoxy-silanes Bajwa, B. S.: Components of different parts of	1099
Au(III): Complexes of 2-hydroxy-1-mer-		seeds (fruits) of Psoralea corylifolia	15
captopyrimidine with Zn(II), Cd(II), Hg(II),	1006	BALAKRISHNAN, M.: Structural & solvent effects	
Tl(I), Pb(II), Ag(I) & Au(III) Aulakh, Gian Singh see Sandhu, Sarjit	1096	on the alkaline hydrolysis of alkyl acetates in protic & dipolar aprotic solvents	597
SINGH SINGH SEE SANDHO, SARJII	1102	protic & dipolar aprotic solvents BALAKRISHNAN, P. see KESSAR, S. V	323
AWAD, SAMI BASSILI Sée SAKLA, ALFY BADIE	1063	Balakrishnan, V. see Viswanathan, N	450
AWAD, W. I.: Action of diazoalkanes on phe-	1060	BALASUBRAMANIAN, K. K. see SENTHILNATHAN,	1207
nanthrenequinone & chrysenequinone Ayengar, K. N. N. see Gupta, Harish Chand	1060 914	V. P BALASUBRAMANIAN, M.: Dehydrogenation of di-	1207
Azaindophenazines: Studies in antiamoebic	711	methylcyclohexanone-1,6-dicarboxylate to di-	
agents: Syntheses of substituted indophena-	-	methyl 2-hydroxyisophthalate	223
zines, azaindophenazines & azaquinoxalines	124	BALDEV KUMAR: An entry into 17-azasteroid	206
Azamethine linkage: Cleavage of alkylmercapto group & exocyclic azamethine linkage in 2-		analogues On the intermediacy of anion radical in the	200
thiohydantoin derivatives	577	reduction of nitro aromatics	410
11-Aza-19-nor-testosterone: Synthesis of		BALKRISHNA: Range of validity of Palit's	200
heterocyclic steroids: Part VIII — Synthesis		equation Band gap refractive index: Role of atomic	209
of key tricyclic intermediate in the synthesis of 11-aza-19-nor-testosterone	1152	numbers of elements in the band gap re-	
Azaphenazines: Studies in anticancer agents:		fractive index & specific gravity of some	
Syntheses of substituted indazolequinones,	100	group II-VI semiconductors	210
2-oxophenazines & azaphenazines	129	BANDOPADHYAY, M.: Experiments towards the synthesis of lasiocephalin & its constitution	295
Azaquinoxalines: Studies in antiamoebic agents: Syntheses of substituted indophenazines,		Synthesis of some naturally occurring	275
azaindophenazines & azaquinoxalines	124		23
17-Azasteroid: An entry into 17-azasteroid	206	coumarins 26, 292,	, 1131
analogues Azasteroids: Part XII — Synthesis of (\pm) -	206	BANERJEE, AJOY K. see CHAKRABORTTY, PRATUL N	948
13,16-diaza-15-oxo-18-norequilenin methyl		BANERJEE, AMALENDU see DUTT, SACHCHIDA-	,,,,
ether	113	NANDA	360
Aziridines: Fused aziridines: Part II — Reac-		BANERJEE, ASHOKE see CHATTERJEE, A	994
tion of photochemically generated ethoxy- carbonylnitrene with 16-dehydropregneno-		BANERJEE, D. K.: A study on the synthesis of oestrone and/or its isomer(s) utilizing cis-8-	
lone acetate	117	methylhydrindan-1,4-dione	1119
AZIZ, GAMIL SEE NOSSEIR, M. H	668	BANERJEE, S. see CHATTERJEE, A	41
AZIZ, M. A. ABDEL see SHALABY, A. F. A Azobenzene dicarboxylic acids: Photochemical	577	BANERJI, ASHISH KUMAR see AHMAD, M. S. BANERJI, KALYAN K.: Kinetics & mechanism	580
cyclodehydrogenation of azobenzene di-		of oxidation of substituted mandelic acids by	
carboxylic acids	60	bromine in acid solution	507
Azomethine N-oxides: Reaction of sodium		BANERJI, N. see SAHU, N. P	284
borohydride with open-chain conjugated azomethine N-oxides (nitrones)	222	Ba(II): Polarographic microdetermination of Cd(II), Zn(II), & Ba(II) in organometallic	
azontenne iv-oxides (intrones)		compounds after oxygen flask combustion	1113
		Bankar, N. S.: Reactions of sant-4(15)-enolide	1012
Вави, G. N. see Вајај, Р	1099	BANNORE, S. N.: Cyclodehydration of o-	139
BADAMI, B. V.: Reactions of sydnones: Part I	1099	hydroxyphenylglyoxal 2-arylhydrazones BANSAL, N. P. see GAUR, H. C	78
— Chlorination using N-chlorosuccinimide &		Bansal, R. K. see Joshi, Krishna C	903
1,3-dipolar addition reactions	671	Bapanaiah, K. V. see Muralikrishna, U	880
BADR, M. ZARIF A.: Molecular rearrangements: Part V—Pyrolysis of α-naphthylmethyl		Barium nitrate: Chronopotentiometry of Ag(I) in molten sodium nitrate-barium nitrate	
Part V — Pyrolysis of α-naphthylmethyl	1067		79

			PAGE
Theoretical e.m.f. for galvanic cells con-		Variation of internal pressure in liquids &	
taining a single solid or molten Ag(I),		liquid mixtures: Benzene & triethyl-	
Li(I), Na(I), K(I), Mg(II), Ca(II), Ba(II)		amine	610
	748	Some observations on the stability of	010
& Tl(I) nitrates as electrolytes	740		410
Bassi, Parmjit S.: Eutectic solidification &		benzene-halogen complexes	415
liquid eufectic: Part I — Binary mixtures of		N-Benzenesulphonyl-L-cysteine: Complex com-	
naphthalene & diphenyl	727	pounds of N-benzenesulphonylglycines with	
Kinetics of solid state reaction between		some metal ions: Part XVI — Formation	
copper & sulphur	813	constants of Zn(II) chelates of N-benzene-	
		culphonyl I cyctoine	626
BASU, RAMA see BHAUMIK, AMIYANSU	379	sulphonyl-L-cysteine	636
see Pahari, M. B	1283	N-Benzenesulphonylglycines: Complex com-	
BASU, SADHAN: Hole-particle description of the		pounds of N-benzenesulphonylglycines with	
intensity of electronic spectra of long chain		some metal ions: Part XVI - Formation	
	883	constants of Zn(II) chelates of N-benzene-	
polyenes		culphonyl I cyctoine	626
see Adnan, Syed Sajjad Zaheer	416	sulphonyl-L-cysteine	636
see Bhattacharyya, Subirnath 415, 69	98, 972	3H-Benz[e]indole: Synthesis of tryptamine	
BATRA, G. S.: Complexes of Ni(II) with the		analogs of 3H-benz[e]- & 1H-benz[g]indole	1009
tridentate ligand (2-mercaptophenyl)salicyl-		1H-Benz[g]indole: Synthesis of tryptamine ana-	
oldining	194	logs of 3H-benz[e]- & 1H-benz[g]indole	1009
aldimine		12H-Benz[f]indolo[2,3-a]pyridocolinium salts:	1007
BATTU, R. S. see PAUL, R. C	827		
Be: Solvent extraction of anionic complexes of		Synthesis of indole alkaloids & related com-	
Be into ion-association systems	1318	pounds: Part II — Synthesis of some 12H-	
BEG, M. AIJAZ: Bi-ionic potentials across		benz[f]indolo[2,3-a]pyridocolinium salts	344
parchment supported inorganic membranes	387	Benzobisoxazoles: Heterocyclic compounds:	
		Part VI — Fragmentation pattern of certain	
BEHERA, B. see PANI, R	215		~~~
Behura, B.: New thiohydantoins & their mer-		benzobisoxazoles under electron impact	775
curated derivatives & their possible use as		Benzodipyrans: Benzodipyrans: Part IV—	
fungicides	781	Synthesis of benzodipyrans akin to dihydro-	
Belhekar, A. A.: Infrared spectrum & hydro-		robustic acid	661
	997	7,8-Benzophenanthridines: Synthesis of 7,8-	
gen bonding in sodium hydrogen malonate		hongonhonanthridings	661
BELLEAU, B. see JAIN, P. C	1021	benzophenanthridines	664
Bentonite: Adsorption of methylene blue,		6,7-Benzo-1,2,4,5 - tetrahydro -1,5 - diazepines:	
crystal violet & malachite green on bentonite,		Potential psychotropic agents: 6,7-Benzo-	
vermiculite, kaolinite, asbestos & feldspar	1187	1,2,4,5-tetrahydro-1,5-diazepines	498
Interaction of crystal violet & malachite		Benzoylacetanilides: Substituent effects on keto-	
interaction of crystal violet & maracine		enol equilibrium of benzoylacetanilides	1074
green with bentonite & their desorption			10/4
by inorganic & surface active quaternary		N-Benzoyl-L-phenylalaninol: Studies on Indian	
ammonium ions	165	medicinal plants: Part XXXI — N-Benzoyl-	
Thermo-osmosis of water through bento-		L-phenylalaninol from Alangium lamarckii	1218
nite	1276	N-Benzoylphenylhydroxylamine: Gravimetric	
Benzaldehyde: Kinetics of oxidation of benz-		determination of Cd(II) with N-benzoyl-	
aldaharda has narawadianlahata	72	mb - multipud manustamina	1317
aldehyde by peroxydisulphate	14	Personal handland and Salvant and a	131/
Kinetics of permanganate oxidation of		Benzoylphenylhydroxylamines: Solvent extrac-	
benzaldehyde & its derivatives in water/		tion of vanadium complexes with benzoyl-	
acetic acid mixtures	307	phenyl- & benzoyl-o-tolylhydroxylamines	901
3-Benzalnaphthalide: Reactions of 3-benzalph-		N-Benzoyl-o-tolylhydroxylamine: N-Benzoyl-o-	
thalide & 3-benzalnaphthalide with a-amino		tolylhydroxylamine as a gravimetric reagent	
	1031	for beryllium	772
acids	1031	N. D	773
3-Benzalphthalide: Reactions of 3-benzalphtha-		N-Benzoyl-o-tolylhydroxylamine as a gravi-	
lide & 3-benzalnaphthalide with α-amino		metric reagent for mercury(II)	1206
acids	1031	Benzoyl-o-tolylhydroxylamines: Solvent extrac-	
acids Benzbetaines: Infrared spectra & molecular		tion of vanadium complexes with benzoyl-	
structure: Part III — Benzbetaines & their		phenyl- & benzoyl-o-tolylhydroxylamines	901
	423		701
hydrohalides	723	Benzyl chloride: Kinetics of reactions of thio-	
Benzene: Aromatic nucleophilic substitutions:		ureas with ethyl bromide, allyl chloride &	
Part IV — Reactions of halo- & nitro-substi-		benzyl chloride in ethanol	969
tuted benzenes with hydroxide ion	370	6-Benzylidene-2-methylcyclohexanol: Epoxida-	
Pyridine-induced shifts in PMR spectra of		tion of cis-pulegol & 6-benzylidene-2-methyl-	
conjugated ketones & their comparison		cyclohexanol	444
	500	1. Bongylicogyinolina methicalia in Maria	111
with benzene-induced shifts	300	1-Benzylisoquinoline methiodides: Metal hy-	
Some observations on the stability of ben-	1444	dride reduction of some 1-benzylisoquinoline	
zene-silver perchlorate system	416	methiodides	355
Thermodynamics of nitromethane solu-		BERA, D. C. see BHATTACHARYYA, R. G	977
tions: Part I — Excess volumes of mix-		BERGE, D. D. see KHADIKAR, P. V	1319
ing of binary solutions of nitromethane		Bergenia strecheyi: Components of Bergenia	-027
with handens discuss or ablance	620	otycologi & P. Limitet	1038
with benzene, dioxane & chloroform	020	strecheyi & B. ligulata	1038

Beryllium: N-Benzoyl-o-tolylhydroxylamine as		BHATTACHARYYA, SUBIRNATH: Electrical con-	
a gravimetric reagent for beryllium	773	ductivity of polystyrene-chloranil & poly-	2 1
Nitration of the beryllium chelates of	100	styrene-tetrachlorophthalic anhydride systems	698
N-substituted acetoacetamides Beryllium nitrate: Solubility of calcium oxalate	189	Electrical conductivity of polyvinylpyridine-chloranil system	972
	1001	Some observations on the stability of	712
BHADURI, A. P. see AGARWAL, S. K	427	benzene-halogen complexes	415
see Gyanendra Kumar	129	BHATTI, AMJED M.: Kinetics of reactions of	
see Lal, B 124,	906	thioureas with ethyl bromide, allyl chloride &	0.44
		benzyl chloride in ethanol	969
BHAGAT RAM see Vig, O. P 68, 1 BHAGAT, SUDESH: Chemical constituents of	1150	BHAUMIK, AMIYANSU: A new approach to	270
	1018	rotational barrier problem Вноwal, S. K.: Solvent extraction of vanadium	379
BHAGAVATHEESWARAN, H.: Formation of 2'-		complexes with benzoylphenyl- & benzoyl-	
ethoxycarbonyl - 1',3' - dimethyl - 4,4' - dioxo-		o-tolyl-hydroxylamines	901
4',5',6',7' - tetrahydrospiro($\Delta^{2,3}$ - cyclohexene)-		Bi(III): Complexes of 1-phenyl-3-(2-pyridyl)-2-	
1,5'-(1H)-indole during Robinson's annelation reaction with 2-ethoxycarbonyl-5-formyl-1,3-		thiourea with Co(II), Ni(II), Cu(I), Zn(II),	0.45
41 . 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1209	Pd(II), Cd(II), Pt(II), Bi(III) & Rh(III) Bichromenes: Electronic spectra of bichromenes	845 1207
BHAGWATI PRASAD: Course of reduction of		Biochanin-A: 7-O-Rutinosides of biochanin-A &	120
dicarboxylic amino acids with sodium bis-		formononetin: Two new rhamnoglucosides	
(2-methoxyethoxy)aluminium hydride	290	of the bark of Dalbergia paniculata	518
BHAGWAT, V. M.: Action of alkali & hydroxyl-		3,3'-(4,4'-Biphenylene bisazo)-bis-2,4-pentane-	
amine on S-(1,2-dicarbethoxyethyl)-O,O-di- methylphosphorodithionate (Malathion)	502	dione: Cu(II) chelates of 3,3'-(4,4'-biphenyl-	
	259	ene bisazo)-bis-2,4-pentanedione & 3-(phenyl-	76
BHAKUNI, D. S. see Joshi, P. P 517,		azo)-2,4-pentanedione 3,3'-Biplumbagin: Synthesis of 3,3'-biplumbagin	767 519
BHANU, S.: A biogenetic-type synthesis of		4,4'-Bipyridine: Preparation & spectroscopic	31.
(±)-obtusafuran methyl ether	20	studies on 4,4'-bipyridine complexes with	
	209	Co(II), Ni(II), Zn(ÎI), Cd(II) & Hg(II) thio-	
BHARDWAJ, S. S. see MAHAJAN, O. P 1 BHARGAVA, M. see AGARWAL, H. P	183	cyanates	107
BHARGAVA, P. N.: Some S-substituted 2-mer-	0.	Bipyridyl: Mixed ligand complexes of Cu(II)	
capto-3-aryl(or alkyl)-(3H)-quinazolones	223	containing bipyridyl or phenanthroline as one	861
Synthesis of 2-(N,N-disubstituted-amino-		of the ligands cis-α-Bisabolene: Terpenoids: Part LXVII —	001
acetamido)-4,5-disubstituted thiazoles as	100	Synthesis of cis-\alpha-bisabolene	1156
possible local anaesthetics Synthesis of 4(3H)-quinazolone derivatives	428 779	N,N'-Bis-(3-aminopropyl)-1,2-ethanediamine:	
BHASKARAIAH, G.: Structure & alkylation of	,,,	Thermodynamics of linked metal chelate	
phenyl thiuret	134	rings: Part III — Enthalpies & entropies of	
see Chande, M. S	38	reaction of Cu(II) & Ni(II) ions with N,N'-bis-(3-aminopropyl)-1,2-ethanediamine	1289
BHASKAR, ANIL: Syntheses of pashanone &		Bisdehydro-ar-himachalene(6,7-benzo-1,5,5,10-	120.
its isomers & their derivatives	557 54	tetramethylcyclohepta-1,3,6-triene): Studies	
BHAT, G. A. see MAHAJANSHETTI, C. S. BHAT, S. N.: Solid complex of phenazine &	27	in terpenoids: Part XXXV — Dehydrogena-	
	1313	tion of a mixture of α - & β -himachalenes.	
BHAT, V. V. see BANNORE, S. N	139	Isolation & characterization of bisdehydro-ar-	
BHATIA, S. K. see SAXENA, R. S 528, 1	1004	himachalene (6,7-benzo-1,5,5,10-tetramethyl-cyclohepta-1,3,6-triene)	889
BHATTACHARJEE, S. P. see CHATTERJEE,	050	Bis - (2, 5 - dihydroxyacetophenone)ethylenedi-	00.
D. N BHATTACHARYA, P. K. see MAVANI, J. P	958 214	amine: Studies on Cr(III), Fe(III) & Co(III)	
see Parikh, P. G	402	complexes of bis-(2,5-dihydroxyacetophenone)-	
BHATTACHARYYA, B. C.: Spectrophotometric		ethylenediamine	1002
studies on mixed chelate formation of vana-		BISHARA, S. W. see GAWARGIOUS, Y. A	1113
dium (V) with tridentate triazene-N-oxides &	4440	Bismuth uranates: A note on the characteristics	211
1 3 3	1110	of bismuth uranates 1,1- Bis-(p-nitrophenyl)-2,2- dihalogenoethanes:	212
BHATTACHARYYA, P. K. see DUTT, SACHCHIDA- NANDA	360	Reactions of 1,1-bis-(p-nitrophenyl)-2,2-di-	
BHATTACHARYYA, R. G.: Solvolytic equilibria	300	halogenoethanes & 2-halogenoethylenes with	
in methanol & acetonitrile of some dioxo-		sodium 2-hydroxyethoxide: Study of anti-	
uranium (VI) complexes with hexamethyl		microbial activity of p-nitro & p-amino	1000
phosphoramide	977	derivatives	1063
	1254 893	Bisulphite: Oxidation of low valent sulphur compounds with lead (IV) acceptate: Potenties	
See THAKUR, S. B BHATTACHARYYA, S. M. See PODDAR,	073	compounds with lead(IV) acetate: Potentio- metric determination of bisulphite	87
S. N	754	BISWAS, A. B. see BODAS, M. G	1310

	PAGE		PAGE
BISWAS, S. P.: Nature of species extracted from titanium(IV)-gallic acid-oxalic acid system by triisooctyl amine	865	CACCHI, S.: Conjugate addition of lithium dimethyl copper to enol ethers & esters of β-diketones	325
Bivalent transition metals: Studies on heteronuclear intervalence transfer: Part IV—		Cadambagenic acid: A new triterpenic acid from Anthocephalus cadamba Miq	284
Cobalticyanides of bivalent transition metals BLOKHRA, R. L.: Conductance of cesium chlo-	652	Cadmium: Polarographic determination of lead & cadmium in glycollic acid medium	
ride in ethylene glycol	998	Polarographic studies on cadmium & lead	1207
Bodas, M. G.: Magnetic susceptibility of CdIn ₂ O ₄ -doped CdMn ₂ O ₄	1310	complexes of thiosinamine in aqueous & aqueous-methanolic solutions	174
BOHRA, RAKESH: Organic compounds of Vth group elements: Part II — Reaction of nio-		Calcium: Magnetic susceptibility & IR data of calcium-lead hydroxylapatites	523
bium pentaethoxide with oximes & diethyl- hydroxylamine	855	Calcium nitrate: Solubility products & related thermodynamic parameters for the dissolution	020
Bora, J. M. see Bhagwati Prasad	290	of silver halides in molten calcium nitrate	
Bora, T.: Kinetics of reaction between iodine & γ-picoline	70	tetrahydrate-sodium nitrate mixtures Theoretical e.m.f. for galvanic cells con-	613
Boron: N,N-Diethylamino-oxy derivatives of boron & aluminium	218	taining a single solid or molten Ag(I), Li(I), Na(I), K(I), Mg(II), Ca(II), Ba(II)	
Boron(III): Cationic boron — Synthesis of boron (III) by transamination reaction	183	& Tl(I) nitrates as electrolytes Calcium oxalate: Solubility of calcium oxalate	748
Bose, J. L. see Bannore, S. N	139	in beryllium nitrate solutions	1001
Bose, S.: Structure of the shell polysaccharide from cashewnuts (Anacardium occidentale		CAPUTO, A. see CACCHI, S 1-Carbamyl-3,4,5-trimethylpyrazole: Co(II),	325
nuts)	680	Ni(II), Cu(II), Zn(II), Cd(II) & Pd(II) complexes of 1-carbamyl-3,4,5-trimethylpyrazole	1107
with ICN & BrCN Bromate ion: Characteristics of chemical oscil-	986	Carbazole: Carcinogenic compounds: Synthesis of carbazole derivatives by Diels-Alder re-	
lators: Part II — Mn ²⁺ catalysed oscillatory reaction between malonic acid & bromate ion	974	action	493
Characteristics of the oscillating reaction	7/1	carbazole alkaloid from Clausena indica	427
between malonic acid & cerium ion & bromate ion	687	Oliv 3-Carbethoxycoumarin: Condensation of 3-carb-	437
4-Bromocholest-4-en-3-one: Reaction of 4-bromocholest-4-en-3-one with hydrazoic acid	580	ethoxycoumarin with ketones in the presence of ammonium acetate or amines	51
α Bromo-2'-hydroxy-5'-methyl-4-methoxydi- benzoylmethane: Reactions of 2'-hydroxy-4'-		5-Carbomethoxy-1,7-dimethoxy-3-methylxan- thone: Chemical investigations on <i>Cassia</i>	
methoxydibenzoylmethane & α-bromo-2'-hy-		occidentalis Linn.: Part III — Synthesis of 5-carbomethoxy-1,7-dimethoxy-3-methyl-	
droxy-5'-methyl-4-methoxydibenzoylmethane with 2,4-dinitrophenylhydrazine	224	xanthone & the structure of cassiollin	1045
9-Bromo-9-phenylfluorene: Electron transfer radical mechanism in the reaction of 9-bromo-		Carbon dioxide: Thermo-osmosis of quaternary gaseous mixtures of oxygen, nitrogen, ethyl-	
9-phenylfluorene with nucleophiles Brown, D. H. see Venkappayya, D	1306 838	ene & carbon dioxide through unglazed porcelain	1273
Butenolides: Polynuclear compounds from highly conjugated butenolides	902	porcelain Carbon disulphide: Friedel-Crafts chemistry: Part VI — Reaction of 1-chloro-3-methyl-3-	
Butylene-1,4-bis-diphenylarsine: Complexes of	704	p-tolylbutane with aluminium chloride catalyst in carbon disulphide & petroleum ether	
ditertiary phosphine/arsine oxides with metal ions: Part VII — Complexes of La(III),		solvents	476
Nd(III) & Sm(III) nitrates with oxides of ethylene-1,2-bis-diphenylphosphine/arsine &		Interaction of carbon disulphide with guani- dines: Formation of 4-imino/substituted-	
butylene-1,4-bis-diphenylphosphine/arsine Butylene-1,4-bis-diphenylphosphine: Complexes	1102	imino-2,6-dithio-1,3,5-thiadiazones Carbons: Specific surface area determination of	490
of ditertiary phosphine/arsine oxides with		microcrystalline carbons by adsorption from solutions of non-electrolytes	161
metal ions: Part VII — Complexes of La(III), Nd(III) & Sm(III) nitrates with oxides of		Carbon tetrachloride: Vapour pressures & excess Gibbs energies for the binary mixtures of	
ethylene-1,2-bis-diphenylphosphine/arsine & butylene-1,4-bis-diphenylphosphine/arsine	1102	ethylbenzene with cyclohexane & carbon	710
		tetrachloride Carbonyl complexes: Hydride & carbonyl com-	718
Ca(II): Influence of sample size on non-iso-		plexes of rhodium & iridium with p-propyldiphenylarsine	185
thermal kinetics of dehydration of hydrated		2-(ω-Carboxyhexyl)cyclopentanone: A simple synthesis of 2-(ω-carboxyhexyl)cyclopenta-	
oxalates of $Mg(II)$, $Ca(II)$ & $Sr(II)$ & dehydroxylation of $Mg(OH)_2$ & α - UO_8 . H_2O	1286	none, a prostaglandin synthon	893

	PAGE		PAGE
3-Carboxy-2-methylene-4-(3',4',5'-trimethoxy-phenyl)-6,7-dimethoxy-1-tetralone: Addition		compounds after oxygen flask combustion	1113
reactions of exomethylene group in 3-carboxy-2-methylene-4-(3',4',5'-trimethoxyphenyl)-6,7-		Polarographic studies on the complexes of Pd ²⁺ & Cd ²⁺ with valerate & isovalerate	655
dimethoxy-1-tetralone	923	Polarography of nicotinamide complexes of Cd(II) in water-formamide mixtures	655 765
rea seeds Careyagenol-E: Structure of careyagenol-E, a	888	Stability constants of chelates of VO(II), UO ₂ (II), Hg(II) & Cd(II) with 1-hydroxy-	
new triterpenoid sapogenol from Careya arborea seeds	888	2-nitrosonaphthalene-4-sulphonic acid Studies in mixed ligand complexes: Part	539
Carvestrene: Studies in terpenes: Part XXXVII — Investigations on Baeyer's carvestrene &	F.C.4	VIII — Formation constants of the complexes of Cu(II), Ni(II), Zn(II) & Cd(II) with dipyridyl/o-phenanthroline as pri-	
(\pm) -sylvestrene $[(\pm)$ -m-mentha-1(6),8-diene] dl-Caryachine: Synthesis of dl-caryachine Cassia occidentalis Linn.: Chemical investiga-	561 550	mary ligands & ethylene- & propylene- diamines as secondary ligands	402
tions on Cassia occidentalis Linn.: Part II — Isolation of islandicin, helminthosporin,		Thermal decomposition of the complexes of dithiocarbamate & substituted thio-	
xanthorin & NMR spectral studies of cassiol- lin & its derivatives	1042	urea with Ni(II), Zn(II), Cd(II), Cr(III) & Co(III)	838
Part III — Synthesis of 5-carbomethoxy-1,7-dimethoxy-3-methylxanthone & the structure of cassiollin	1045	CdIn ₂ O ₄ : Magnetic susceptibility of CdIn ₂ O ₄ -doped CdMn ₂ O ₄ CdMn ₂ O ₄ : Magnetic susceptibility of CdIn ₂ O ₄ -	1310
Cassia tora: Chrysophanol-1-β-gentiobioside, a new anthraquinone glycoside from Cassia	1045	doped $CdMn_2O_4$ $Cd(II)$ thiocyanate: Preparation & spectroscopic	1310
tora Linn,	1251	studies on 4,4'-bipyridine complexes with Co(II), Ni(II), Zn(II), Cd(II) & Hg(II) thio-	
occidentalis Linn.: Part II — Isolation of islandicin, helminthosporin, xanthorin &		cyanates Ce: Manganese dioxide as sorber in the determination of Ce, Ru, Zr & Cs fission nuclides	107
NMR spectral studies of cassiollin & its derivatives Part III — Synthesis of 5-carbomethoxy-	1042	from seawater by neutron activation analysis Ce(III): La(III), Ce(III), Pr(III), Nd(III) &	200
1,7-dimethoxy-3-methylxanthone & the structure of cassiollin	1045	Sm(III) chelates of N-(2-hydroxy-1-naphthal-idene)anthranilic acid	1321
Cationic dyes: Applications of NMR spectroscopy & mass spectrometry to some problems		Studies on the formation of complexes of glutamine with Y(III), La(III), Ce(III) & U(VI)	1322
concerning synthetic dyes: Part IX — Action of sodium borohydride on some cationic dyes. Cd(II): Adsorption of Zn(II), Cd(II) & Hg(II)	785	$Ce(IV)$: Kinetics of oxidation of α -picoline by $Ce(IV)$ in acetic acid	421
complexes with p-dimethylaminoanil of methyl glyoxal on silica gel	768	Cellulose tripropionate: Multiple melting transitions in cellulose tripropionate	1297
Co(II), Ni(II), Cu(II), Zn(II), Cd(II) & Pd(II) complexes of 1-carbamyl-3-4,5-	1105	Celsia coromandeliana Vahl.: Chemical constituents of Celsia coromandeliana Vahl.	304
trimethylpyrazole Complexes of 2-hydroxy-1-mercaptopyri- midine with Zn(II), Cd(II), Hg(II), Tl(I),	1107	Celsiogenin-C, a new genin from celsiosides isolated from <i>Celsia coromandeliana</i> Vahl Celsiosides: Celsiogenin-C, a new genin from	907
Pb(II), Ag(I) & Au(III) Complexes of 1-phenyl-3-(2-pyridyl)-2-thio-	1096	celsiosides isolated from Celsia coromandeliana Vahl	907
urea with Co(II), Ni(II), Cu(I), Zn(II), Pd(II), Cd(II), Pt(II), Bi(III) & Rh(III)	845	Ceramidoninediones: Substitution reactions of ceramidoninediones: Part I — Bromination	0.55
Complexes of triphenylphosphine sulphide: Part I — Nature of the adducts of halides of Zn(II), Cd(II) & Hg(II) with		& nitration Cerium ion: Characteristics of the oscillating reaction between malonic acid & cerium ion	357
triphenylphosphine sulphide Gravimetric determination of Cd(II) with	823	& bromate ion Cesium chloride: Conductance of cesium chloride	687
N-benzoylphenylhydroxylamine Metal chelates with Schiff bases: Part I —	1317	in ethylene glycol	
Co(II), Ni(II), Cu(II). Zn(II) & Cd(II) complexes with ethyl 3-[(o-arsonophenyl)-iminal butwrate & N. (1 methyl 3 even		CHADHA, VIJAY K. see DHAKA, K. S. 287, 4 CHAKRABARTY, D. K. see SWARNAKAR, R. D CHAKRABORTI, D. see DAS, M. K	85, 966 396 773
imino]-butyrate & N-(1-methyl-3-oxo- butylidene)-o-arsanilic acid Mixed complexes of Ni(II), Zn(II) & Cd(II)	830	CHAKRABORTTY, PRATUL N.: Synthetic studies in resin acid series: Part VII — Syntheses of	. 773
with ethylenediamine, monoamino acids & polyphenols	214	1α - methyl - 1 β ,4 α β - dicarboxy - 1,2,3,4,4 α ,9,10, 10 α β -octahydrophenanthrene & 1 β , 4 α β -di-	
Polarographic microdetermination of Cd(II) Zn(II) & Ba(II) in organometallic		carboxy-1,2,3,4,4a,9,10,10a α -octahydrophenau- threne	948

	IAGE		PAG.
CHAKRABORTY, BANANI see ZUTSHI, KAMALA CHAKRAVARTI, K. K.: Synthesis of 17-hydroxy-	765	Chlorocyclopentadienes: Reaction of ethynyl phenyl ketone with some chlorocyclopenta-	
11-methoxy-18-norandrosta-4,8(9),11,13(14)-		dienes	64
tetraene-3-one, a ring-C aromatic steroid	275	Chloroform: Thermodynamics of nitromethane	
CHAKRAVARTI, R. N. see SAHU, N. P	284	solutions: Part I — Excess volumes of mixing	
	, 1187	of binary solutions of nitromethane with	()
CHAKRAVARTY, P. K.: Synthetic substitute enzymes: Part VI — Synthesis & glycosidase		benzene, dioxane & chloroform 5-Chloro-2-hydroxybutyrophenone: Stability	62
activity of Glu-Phe-Ala-Ala-Glu-Glu-Phe-Ala-		constants of 5-chloro-2-hydroxybutyrophen-	
Ser-Phe & analogous Ala-7-decapeptide	464	one complexes with Cu(II), Ni(II), Co(II),	
CHAKRAVORTY, A. see MOHANTY, J. G	883	$Z_{n}(II) & M_{n}(II) \dots \dots \dots \dots$	21
Chalkone: Pyrolysis of chalkone in the presence of aluminium-bronze powder	1014	4-Chloro-4-methyl-1,2-oxathiane-2-oxide: Cyclic sulphinates: Part I — NMR & IR studies on	
CHANDE, M. S.: Interaction of ethyl chloro-	1014	4-chloro-4-methyl-1,2-oxathiane-2-oxide & its	
formate & 1-methyl-2,4-dithiobiuret: Forma-		derivatives	27
tion of a novel complex compound & 1,3,5-	• • •	2-(4- Chloro-3- methylphenoxy)-2,3-dihydro-1 <i>H</i> -	
triazine derivatives	38	benzo-1,3,2-diazaphosphole-2-oxides: Hetero-	
CHANDER SHEKHAR see RAO, A. L. J CHANDRA, A. K. see SUNDAR, R	903	cyclic systems containing phosphorus: Part I — Syntheses of 2-(4-chloro-3-methylphenoxy)-	
CHANDRAMOHAN, M. R.: Studies in the Vils-	110	2, 3-dihydro-1 <i>H</i> -benzo-1,3,2-diazaphosphole-	
meier-Haack reaction: Part IX — Reaction		2-oxides	34
of lactams with N-methylpyrrolidone/phos-	0.40	1-Chloro-3-methyl-3- p -tolylbutane: Friedel-	
phorus oxychloride reagent CHANDRASEKHARAN, S. see PURUSHOTHAMAN,	940	Crafts chemistry: Part VI — Reaction of 1-chloro-3-methyl-3-p-tolylbutane with alumi-	
K. K	207	nium chloride catalyst in carbon disulphide	
CHANNABASAVAIAH, K.: Peptides related to		& petroleum ether solvents	47
physalaemin	1203	Chloroselenates: Chemistry of selenium trioxide:	
CHATTERJEA, J. N.: A new synthesis of 4-alkyl-	1256	Part I — Preparation of some chloroselenates	32
(or aryl)chrom-3-enes Use of diazoethane in the synthesis of	1256	N-Chlorosuccinimide: Reactions of sydnones: Part I — Chlorination using N-chlorosuccin-	
isocoumarins	1259	imide & 1,3-dipolar addition reactions	67
CHATTERJEE, A.: A simplified route to glochi-		Chlorothallium(III): Kinetics & mechanism of	
done from lupeol	994	electron transfer reactions of aquo & co-	
Experiments directed towards the synthesis of B-homosteroids	41	ordinated thallium(III): Part VI— Reduction of chlorothallium(III) complexes by antimony	
of B-homosteroids see Das, P. C	1139	(III)	10
see Rukmani Iyer, C. S	281	CHOKSEY, INDIRA: Isocoumarins: Part XI —	
CHATTERJEE, A. K. see MOULIK, S. P	92	Synthesis of 6,8-diamino-7-methoxy-3-methyl-	_
CHATTERJEE, D. N.: Friedel-Crafts condensation of the lactone of 4-methyl-2-hydroxycyclo-		isocoumarin & related isocoumarins Chopra, S. L. see Sekhon, B. S	5 132
hexylacetic acid with aromatic hydrocarbons:		CHOPRA, S. L. see SEKHON, B. S CHOTHIA, D. S. see MERCHANT, J. R	35
Part II — Condensation with p-xylene &		CHOUDHARY, K. K.: Polarographic studies on	
tetralin	958	the complexes of Pd ²⁺ & Cd ²⁺ with valerate	
CHATURVEDI, D. N.: Polarographic studies on		& isoyalerate ions CHOUDHURY, V. N. see DESHMUKH, G. S. 540	65
Zn(II)-pyridoxine system in water, water- formamide & water-dimethylformamide media	531	Chowdhury, A. see Adityachaudhury, N	
CHAUDHURI, S. B. see DAS, P. C	1139	Chromenochromone: Pongaflavone, a new chro-	
Chelerythrine chloride: Total synthesis of chel-		menochromone & an analogue of karanjin	
erythrine chloride through a novel route	323	isolated from Pongamia pinnata (Linn.) Pierre	
Chemical oscillators: Characteristics of chemical oscillators: Part II — Mn ²⁺ catalysed oscilla-		(syn. P. glabra) Chromic acid: Kinetic & analytical studies	
tory reaction between malonic acid & bromate		on the oxidation of thiocyanate by chromic	
ion	974	acid in aqueous sulphuric acid medium	88
CHICKERUR, N. S.: Magnetic susceptibility &	E02	Chromic oxide: The zero point of charge of	~
IR data of calcium-lead hydroxylapatites CHIRANJEEVI RAO, S. V. see CHICKERUR,	523	chromic oxide solution interface Chromium(III): Diethoxyphosphato complexes	7
N. S	523	of vanadium(III), chromium(III), manganese	
Chloramine-T: Mechanism of chloramine-T oxi-		(II) & copper(II)	82
dation of formaldehyde & acetaldehyde	311	Chromium(VI): Studies in oxidation: Part XVI	
Chloranil: Electrical conductivity of poly-		— Mechanism of oxidation of aromatic hydro- carbons by chromium(VI)	37
styrene-chloranil & polystyrene-tetrachloro- phthalic anhydride systems	698	Chrysenequinone: Action of diazoalkanes on	37
Electrical conductivity of polyvinylpyri-		phenanthrenequinone & chrysenequinone	106
dine-chloranil system	972	Chrysophanol-1-β-gentiobioside, a new anthra-	105
3β-Chlorocholest-5-en-7-one: Azasteroid from	1323	quinone glycoside from Cassia tora Linn	125

Cinchonine: Cinchonine complexes of titanium		Cobalt: Acenaphthenequinonemonoxime as a	
(III) & copper(II)	111	spectrophotometric reagent for rapid deter-	221
Cinnamic acid: Kinetics of bromination of trans-cinnamic acid	1175	mination of cobalt	221
Cirsium lineare: Synthesis of flavone glucosides		of cobalt in silver	702
of Cirsium lineare	1040	Spectroscopic & magnetic studies on di(p-	
Citric acid: Spectrophotometric studies on colourless complexes of Fe(III) with oxalic,		chlorophenyl)dithiophosphinato deriva- tives of cobalt & nickel sub-group metals	848
citric & malonic acids & EDTA using 5-sul-		Cobalt chloride: Reaction of thiotrithiazyl	070
phosalicylic acid as an auxiliary ligand	536	chloride with anhydrous cobalt chloride	761
Citronellol: Organosilicon derivatives of terpene alcohols: Part I — Reactions of citronellol (3,7-		Cobalticyanides: Studies on heteronuclear intervalence transfer: Part IV — Cobalticyanides	
dimethylocten-1-ol) & geraniol (3,7-dimethyl-		of bivalent transition metals	652
2,6-octadien-1-ol) with chloro- & alkoxy-	1000	Cobalt(II) thiocyanates: Preparation & spectro-	
silanes	1099	scopic studies on 4,4'-bipyridine complexes with Co(II), Ni(II), Zn(II) Cd(II) & Hg(II)	
indizoline, a new carbazole alkaloid from		thiocyanates	107
Clausena indica Oliv	437	Cocsolin: Structure & stereochemistry of cocsolin	649
Co(II): Chemistry of substituted sulphuric acids: Part IX — Methanesulphonates of		Cocsulinin: Structure & stereochemistry of	£ 1 '7
V(III), Cr(III), Co(II), Ni(II) & Cu(II)	825	cocsulinin	517
Co(II), Ni(II) & Cu(II) complexes of substi-	0	brookia oppositifolia	1327
tuted malonic acids Co(II), Ni(II), Cu(II), Zn(II), Cd(II) &	658	Copper: Corrosion of copper single crystal planes in acidic bromide solution	1002
Pd(II) complexes of 1-carbamyl-3-4,5-tri-		Kinetics of solid state reaction between	1083
methylpyrazole	1107	copper & sulphur :	813
Cobalt(II) complexes of N-salicylidene-	215	Corchorus aestuans Linn.: Chemical examination	700
glycine Complexes of nitroalizarin with Zn(II),	413	of the seeds of <i>Corchorus aestuans</i> Linn Corylin: Isolation & constitution of corylin: A	780
$M_{\mathfrak{I}}(II)$, $C_{\mathfrak{I}}(II)$, $N_{\mathfrak{I}}(II)$ & $Y(III)$	899	new isoflavone from the fruits of Psoralea	
Complexes of 1-phenyl-3-(2-pyridyl)-2- thiourea with Co(II), Ni(II), Cu(I),		corylifolia	659
Zn(II), Pd(II), Cd(II), Pt(II), Bi(III) &		Coumarins: Synthesis of some naturally occurring coumarins	23
Rh(III)	845	Coumarrayin: Nuclear prenylation of 5,7-di-	
Cu(II), Ni(II) & Co(II) chelates of Schiff bases, 2,5-dihydroxyacetophenone-ethyl-		hydroxycoumarin: Synthesis of coumarrayin	20
enediamine & 2-hydroxy-5-methylaceto-		& toddaculin β-(Coumaryl)-alanine: Synthesis of β-(coumaryl)-	29
phenone-isopropylenediamine	771	alanine derivatives	1014
Cu(II), Zn(II), Ni(II), Co(II) & Mn(II) chelates of N-phenyl-2-furohydroxamic		51Cr: Chemical effects of 51Cr neutron capture	710
acid	534	recoils in K ₂ CrO ₄ -K ₂ SO ₄ mixed crystals Cr(III): Chemistry of substituted sulphuric	712
Effect of pH on the kinetics of adsorption		acids: Part IX — Methanesulphonates of	
of iodide & cobalt(II) ions on metallic & glass surfaces	315	V(III), Cr(III), Co(II), Ni(II) & Cu(II) Studies on Cr(III), Fe(III) & Co(III) com-	825
Metal chelates with Schiff bases: Part I	313	plexes of bis-(2,5-dihydroxyacetophen-	
Co(II), Ni(II), Cu(II), Zn(II) & Cd(II)		one)ethylenediamine	1002
complexes with ethyl 3-[(o-arsonophenyl)-imino]-butyrate & N(1-methyl-3-oxo-		Thermal decomposition of the complexes of dithiocarbamate & substituted thiourea	
butylidene)-o-arsanilic acid	830	with Ni(II), Zn(II), Cd(II), Cr(III) &	
Ni(II) & Co(II) chelates of 2,3-dioxobutyr-		Co(III)	838
anilide-2-oxime Polarographic maximum of Co(II) in	537	Crystal violet: Adsorption of methylene blue, crystal violet & malachite green on bentonite,	
KCl	390	vermiculite, kaolinite, asbestos & feldspar	1187
Stability constants of 5-chloro-2-hydroxy-		Interaction of crystal violet & malachite	
butyrophenone complexes with Cu(II), Ni(II), Co(II), Zn(II) & Mn(II)	217	green with bentonite & their desorption by inorganic & surface active quaternary	
Synergic extraction of cobalt(II) from		ammonium ions	165
acetate buffers by mixtures of thenoyl-	4100	Cs: Manganese dioxide as sorber in the deter-	
trifluoroacetone & alcohols in benzene Co(III): Studies on Cr(III), Fe(III) & Co(III)	1199	mination of Ce, Ru, Zr & Cs fission nuclides from seawater by neutron activation analysis	200
complexes of bis-(2,5-dihydroxyacetophen-		Cu(I): Complexes of 1-phenyl-3-(2-pyridyl)-2-	200
one)ethylenediamine	1002	thiourea with Co(II), Ni(II), Cu(I), Zn(II),	
Thermal decomposition of the complexes of dithiocarbamate & substituted thio-		Pd(II), Cd(II), Pt(II), Bi(III) & Rh(III) Cu(II): Chemistry of substituted sulphuric	845
urea with Ni(II), Zn(II), Cd(II), Cr(III)		acids: Part IX — Methanesulphonates of	
& Co(III)	838	V(III) Cr/III) Co(II) Ni(II) & Cu(II)	925

	PAGE		PAGE
Cinchonine complexes of titanium(III) & copper(II) Co(II), Ni(II) & Cu(II) complexes of substituted malania acids	111	Cyclic sulphinates: Part I — NMR & IR studies on 4-chloro-4-methyl-1,2-oxathiane-2-oxide & its derivatives	278
tuted malonic acids Co(II), Ni(II), Cu(II), Zn(II), Cd(II) & Pd(II) complexes of 1-carbamyl-3-4,5-trimethylpyrazole	658 1107	Cycloalkylamine derivatives: Studies on cyclo- alkylamine derivatives Cyclohexane: Thermodynamics of binary mix- tures: Excess Gibbs energies & surface tension	1139
Cu(II) chelates of 3,3'-(4,4'-biphenylene bisazo)-bis-2,4-pentanedione & 3-(phenylazo)-2,4-pentanedione Cu(II), Ni(II) & Co(II) chelates of Schiff	767	of binary mixtures of cyclohexane with o-xylene, m-xylene, p-xylene & ethylbenzene in surface phase Vapour pressures & excess Gibbs energies	714
bases, 2,5-dihydroxyacetophenone-ethyl- enediamine & 2-hydroxy-5-methylaceto- phenone-isopropylenediamine Cu(II), Ni(II) & Fe(III) chelates of 2-	771	for the binary mixtures of ethylbenzene with cyclohexane & carbon tetrachloride Isooctane: Vapour pressure & excess Gibbs energies for the system cyclohexane +	718
hydroxy-5-methyl-3-nitroacetophenone- ethylenediamine & Fe(III) chelate of corresponding oxime	764	isooctane (2,2,4-trimethylpentane) Cycloseychellene: Identity of patchouli oil hydrocarbon-E with cycloseychellene	721 1016
Cu(II), Zn(II), Ni(II), Co(II) & Mn(II) chelates of N-phenyl-2-furohydroxamic acid Diethoxyphosphato complexes of vanadium	534	3,5-Cyclosteroid: A simple method to convert a 3,5-cyclosteroid to a Δ^5 -steroid	991
(III), chromium(III), manganese(II) & copper(II) Metal chelates with Schiff bases: Part I —	827	DABOUN; H. A. SEE SHALABY, A. F. A	577
Co(II), Ni(II), Cu(II), Zn(II) & Cd(II) complexes with ethyl 3-[(o-arsonophenyl)-imino]butyrate&N-(1-methyl-3-oxobutyl-idene)-o-arsanilic acid	830	DABRAL, V. see ILA, H Dalbergia paniculata: 7-O-Rutinosides of biochanin-A & formononetin: Two new rhamnoglucosides of the bark of Dalbergia	543
Mixed ligand complexes of Cu(II) containing bipyridyl or phenanthroline as one of the ligands	861	paniculata	518
Ni(II) & Cu(II) complexes with Schiff bases Potentiometric & spectrophotometric studies on Cu(II)-3,5-dibromosalicylic	984	sissoo Isotectorigenin from the bark of Dalbergia sissoo DALI (née BERDE), H. M.: Synthesis of hetero-	10
acid system Spectral & magnetic studies on Ni(II), Cu(II), Rh(III), Pd(II) & Pt(II) com-	870	cyclic compounds: Part XI — Synthesis of some dibenzophenanthrolines Das, A. K. see Adityachaudhury, N	1230 1327
plexes of thiosalicylic acid Stability constants of 5-chloro-2-hydroxy-butyrophenone complexes with Cu(II), Ni(II), Co(II), Zn(II) & Mn(II)	769	DAS, ASOKE K.: Complexes of Mn(II) seleno- cyanate with nitrogen donor ligands DASGUPTA, A. C. see DAS, P. C DAS GUPTA, AMITABHA see ROY, ANJAN	898 1139 564
Studies in mixed ligand complexes: Part VIII — Formation constants of the complexes of Cu(II), Ni(II), Zn(II) & Cd(II)		DAS KANUNGO, J. L. see DE, D. K. 165 DAS, K. K.: Preparation of kitol acetate from retinyl acetate by the action of indirect sun-	, 1187
with dipyridyl/o-phenanthroline as pri- mary ligands & ethylene- & propylene- diamines as secondary ligands Thermodynamics of linked metal chelate	402	DAS, M. K.: N-Benzoyl-o-tolylhydroxylamine as a gravimetric reagent for beryllium DAS, N. S. see PODDAR, S. N	773 1105
rings: Part III — Enthalpies & entropies of reaction of Cu(II) & Ni(II) ions with N,N-bis-(3-aminopropyl)-1,2-ethanedi-		Das, P. C.: Studies on cycloalkylamine derivatives Dass, N. N. see Bora, T	1139 70
amine Cu-H-clay: Bi-ionic potential measurements across °Cu-resin, Cu-H-clay & mixed oxalate	1289 999	DAVE, L. D.: Cu(II), Ni(II) & Co(II) chelates of Schiff bases, 2,5-dihydroxyacetophenone-ethylenediamine & 2-hydroxy-5-methylacetophenone-isopropylenediamine	771
membranes	999	Cu(II), Ni(II), Fe(III) chelates of 2- hydroxy-5-methyl-3-nitroacetophenone ethylenediamine & Fe(III) chelate of	
Curcumene ether: Transformation products of 2-methyl-6-p-tolylhept-2-en-6-pl & comments on the assigned structure of curcumene	1202	corresponding oxime Ni(II) & Cu(II) complexes with Schiff bases	764 984
ether of Cyathea spinulosa: Chemical components of Cyathea spinulosa leaves	1202 783	Studies on Cr(III), Fe(III) & Co(III) complexes of bis-(2,5-dihydroxyaceto-phenone)ethylenediamine	1002
			1339

DE, D. K.: Adsorption of methylene blue, crystal violet & malachite green on bento-		Part XIX — Reaction of 2,3-dichloroquinoxaline with thioureas	966
nite, vermiculite, kaolinite, asbestos & feldspar	1187	DHAMI, KEWAL S.: Cyclic sulphinates: Part I—NMR & IR studies on 4-chloro-4-methyl-1,2-	900
Interaction of crystal violet & malachite green with bentonite & their desorption	1107	oxathiane-2-oxide & its derivatives DHAR, DURGA N.: Pyrolysis of chalkone in the	278
by inorganic & surface active quaternary	165	presence of aluminium-bronze powder	1014 124
DE, R. see DUTT, N. K	1320	see Gyanendra Kumar	129
Dehydracetic acid: Behaviour of dehydracetic acid with carbonyl reagents: Synthesis of a		DHAR, M. M. See SUSHMA RISHI see CHAKRAVARTY, P. K	458 464
new pyridinopyrazoles Condensation products of dehydracetic acid	570	See Joshi, P. P 5. Dharam Paul see Harkishan Singh 1210	17, 649 1211
with aromatic aldehydes & pyrazolines derived from them	956	DHAWAN, B. L. see RASTOGI, M. C. 1. DHAWAN, RANJANA: Solubility products &	58, 732
Dehydro-ar-juvabione: Studies in terpenoids:	750	related thermodynamic parameters for the	
Part XXVIII — Synthesis of dehydro-ar-juvabione	936	dissolution of silver halides in molten calcium nitrate tetrahydrate-sodium nitrate mix-	
16-Dehydropregnenolone acetate: Fused aziridines: Part II — Reaction of photochemically		tures DHEKNE, VIJAY V.: Identity of patchouli oil	613
generated ethoxycarbonylnitrene with 16- dehydropregnenolone acetate	117	hydrocarbon-E with cycloseychellene DHINGRA, M. M. see PARTHASARATHY, S	7016 805
4'-Demethyleucomin: Synthesis of eucomin,	117	DHINGRA, V. K.: Isotectorigenin from the bark	
4'-demethyleucomin & 5,7-di-O-methyleucomol	554	of Dalbergia sissoo Diamines: Complexes of Tin(IV) with some	1118
Deodarin: Constitution of deodarin & synthesis of its methyl ether & of 6-C-methyltaxifolin	1126	tetradentate Schiff bases derived from salicylaldehyde & diamines	1105
DEOKI NANDAN: Methanol sorption isotherms of polystyrene sulphonate (PSS) type of ion		2,4-Diaminobutyric acid: Intramolecular reactions in peptides containing 2,4-diamino-	
exchangers	808	butyric acid	1216
Deoxyandirobin: Occurrence of methyl angolensate & deoxyandirobin in Soymida febrifuga	20#	L-α, Υ-Diaminobutyric acid: Synthesis of peptides containing L-α, Υ-diaminobutyric acid	
A. Juss	207 216	& glycine 2,4-Diamino-6-mercapto-s-triazine (thioamme-	1071
Desai, R. K. see Vasi, I. G Deshmukh, G. S.: Amperometric determination	1211	line): Interaction of dicyandiamide with thiocarbamide: Formation of 2,4-diamino-6-	
of Tl(I), Sb(III) & V(IV) with lead(IV)	540	mercapto-s-triazine (thioammeline) & bigua-	406
acetate Polarographic determination of lead &		nide 6,8-Diamino-7-methoxy-3-methylisocoumarin:	496
cadmium in glycollic acid medium DESHMUKH, S. W.: A new method of partial	1207	Isocoumarins: Part XI — Synthesis of 6,8-diamino-7-methoxy-3-methylisocoumarin &	
methylation: Synthesis of rengasin DESHPANDE, V. H.: Wood phenolics of Morus	893	related isocoumarins 1,1-Diaryl-2-bromoethylenes: Diels-Alder re-	57
species: Part III — Phenolic constituents of	431	action: Addition of N-arylmaleimides to	
Morus rubra bark Desmethoxymatteucinol: Flavanones from the	421	1,1-diarylethylenes & 1,1-diaryl-2-bromo- ethylenes 1,1-Diarylethylenes: Diels-Alder reaction:	481
stem of <i>Unona lawii</i> Hook. f. & Thoms.: Isolation of lawinal, desmethoxymatteucinol,		1,1-Diarylethylenes: Diels-Alder reaction: Addition of N-arylmaleimides to 1,1-diaryl-	
desmethoxymatteucinol-7-methyl ether & a synthesis of lawinal	1033	ethylenes & 1,1-diaryl-2-bromoethylenes Diaryltin dihalides: Far infrared spectra of	481
Desmethoxymatteucinol-7-methyl ether: Flava- nones from the stem of <i>Unona lawii</i> Hook. f.		complexes of diaryltin dihalides with certain amides	98
& Thoms.: Isolation of lawinal, desmethoxy-matteucinol, desmethoxymatteucinol-7-methyl		13,16-Diaza-15-oxo-18-norequilenin methyl ether: Azasteroids: Part XII — Synthesis	, 0
ether & a synthesis of lawinal	1033	of (\pm) -13,16-diaza-15-oxo-18-norequilenin	110
DEVANI, M. B.: Syntheses of some 2,3,6-tri- substituted quinazolone-sulphonylthioureas	905	methyl ether Diazoalkanes: Action of diazoalkanes on	113
DEY, ARUN K. see TRIPATHI, VIJAY SHANKAR	1199	phenanthrenequinone & chrysenequinone Diazoethane: Use of diazoethane in the syn-	1060
DHAKA, K. S.: Heterocyclic systems containing bridgehead nitrogen atom: Part XVI—		thesis of isocoumarins Dibenzacridines: Synthesis of heterocyclic com-	1259
Syntheses of s-triazolo[3,4-b][1,3,4]thiadiazines & related heterocycles	287	pounds: Part X—Synthesis of dibenzacridines & dibenzophenanthridines	1227
Part XVIII — Reaction of 2-mercapto-		Dibenz[b,e][1,4]diazepines: Condensed heterotri-	1441
s-triazoles with α-haloketones & with alkyl halides	485	cycles: Synthesis of Dibenz[b,f][1,4]oxaze-pines, dibenz[b,f][1,4]thiazepines & dibenz-	

\	INGE		2 22012
[b,e][1,4]diazepines by cyclization of 2-halo-		Di(p-chlorophenyl)dithiophosphinato deriva-	
2'-hydroxy(mercapto/amino)benzanilides	227	tives: Spectroscopic & magnetic studies on	
Dibenzocycloalkanones: Part II — Synthesis of		di(p-chlorophenyl)dithiophosphinato deriva-	0.40
2,3,7,8-tetramethoxydibenzo[a,d]cyclohepta-	1056	tives of cobalt & nickel subgroup metals	848
Dibonzophonanthridinas Synthesis of hetero	1056	2,3-Dichloroquinoxaline: Heterocyclic systems	
Dibenzophenanthridines: Synthesis of heterocyclic compounds: Part X — Synthesis		containing bridgehead nitrogen atom: Part XIX — Reaction of 2,3-dichloroquinoxaline	
of dibenzacridines & dibenzophenanthri-		with thioureas	966
dines	1227	Dicyandiamide: Interaction of dicyandiamide	, , ,
Dibenzo $[b,j][4,7]$ phenanthroline: Synthesis of		with thiocarbamide: Formation of 2,4-di-	
heterocyclic compounds: Part XV — Synthe-		amino-6-mercapto-s-triazine (thioammeline) &	
sis of dibenzo $[b,j]$ [4,7] phenanthroline	1324	biguanide	496
Dibenzophenanthrolines: Synthesis of hetero-		DIEFALLAH, E. M. see Sherif, M. K	712
cyclic compounds: Part XI - Synthesis of	400	Diethanolamine: Ni(II)-diethanolamine com-	700
some dibenzophenanthrolines	· 1227	plexes Diethoxyphosphato complexes of vana-	533
Dibenz[b,f][1,4]oxazepine: Condensed hetero-		dium(III) chromium(III) manganasa(II)	
tricycles: Potential metabolites of dibenz- [b,f][1,4]oxazepine antidepressant, Sintamil	270	dium(III), chromium(III), manganese(II) & copper(II)	827
Beckmann rearrangement of xanthone &	210	2,2-Diethyl-1,3-bis(2-cyanoethoxy)propane: Stu-	027
thioxanthone oximes as a route to dibenz-		dies on 2,2-diethyl-1,3-bis(2-cyanoethoxy)pro-	
[b,f][1,4] oxazepines & thiazepines	247	pane: A new stationary phase for gas chro-	
10,11-Ring annealed dibenz[b,f][1,4] oxaze-		matography	1322
pines	263	Diethylenetriamine: Polarographic determina-	
Synthesis of pyridine-annealed dibenz-		tion of Te(IV) with diethylenetriamine	542
[b,f][1,4]oxazepines	252	Diethylhydroxylamine: Organic compounds of	
Dibenz[b,f][1,4]oxazepin-11(10H)-thiones: Con-		Vth group elements: Part II — Reaction of	
densed heterotricycles: Dibenz[b,f][1,4]oxaze-		niobium pentaethoxide with oximes & diethyl-	855
pin-11(10H)-thiones, 11-substituted dibenz- $[b,f][1,4]$ oxazepines & dibenz $[b,f][1,4]$ thiaze-		hydroxylamine DIGHE, S. S.: Chemical investigation of Aeginetia	033
pine analogues	258	indica Linn.: Part II — Structures of aegi-	
Dibenz[b,f][1,4]thiazepine: Condensed hetero-	250	netic acid & aeginetolide	413
tricycles: Dibenz $[b,f][1,4]$ oxazepin-11(10H)-		Part III — Isolation of polyenes	414
thiones, 11-substituted dibenz[b,f][1,4]oxaze-		4,6-Dihalo-1,3-dinitrobenzenes: Kinetics of re-	
pines & dibenz $[b,f][1,4]$ thiazepine ana-		action of 4,6-dihalo-1,3-dinitrobenzenes with	
logues	258	aniline	510
Dibenz $[b,f][1,4]$ thiazepines: Condensed hetero-		Dihydrorobustic acid: Benzodipyrans: Part IV	
tricycles: Beckmann rearrangement of		— Synthesis of benzodipyrans akin to	661
xanthone & thioxanthone oximes as a		dihydrorobustic acid	661
route to dibenz[b,f][1,4]oxazepines & thiaze-	247	2',4'-Dihydroxychalkone: Metal chelates of 2',4'-dihydroxychalkone	1319
pines \cdots Synthesis of dibenz[b,f][1,4]oxazepines,	211,	Dihydroumbelliferone: Linear furocoumarins:	1017
dibenz $[b,f][1,4]$ thiazepines & dibenz-		Part VI — O- & C-allylation of dihydro-	
[b,e][1,4]diazepines by cyclization of 2-		umbelliferone	.564
halo-2'-hydroxy(mercapto/amino)benza-		2,5 - Dihydroxyacetophenone - ethylenediamine:	
nijides	227	Cu(II), Ni(II) & Co(II) chelates of Schiff bases,	
1,3-Dibenzyl-2-substituted-5-methylbenzimida-		2,5-dihydroxyacetophenone-ethylenediamine	
zolines: Studies in the formation of hetero-		& 2-hydroxy-5-methylacetophenone-isopro-	771
cyclic rings containing nitrogen: Part XVII		pylenediamine 5,7-Dihydroxycoumarin: Nuclear prenylation of	771
- Pyrolysis of 1,3-dibenzyl-2-substituted-5-	346	5,7-dihydroxycoumarin: Nuclear prenylation of 5,7-dihydroxycoumarin: Synthesis of coumar-	
methylbenzimidazolines 3,5-Dibromosalicylic acid: Potentiometric &	2,10	ravin & toddaculin	29
spectrophotometric studies on Cu(II)-3,5-		rayin & toddaculin	
dibromosalicylic acid system	870	allylation of 5,7-dihydroxy-2-methylchromone	471
S-(1,2-Dicarbethoxyethyl)-O,O-dimethylphosph-		β-Diketones: Conjugate addition of lithium	
orodithionate (malathion): Action of alkali &		dimethyl copper to enol ethers & esters of	
hydroxylamine on S-(1,2-dicarbethoxyethyl)-		β-diketones	325
O,O-dimethylphosphorodithionate (Malathion)	502	DIKSHIT, D. K.: Antifertility agents: Part IX —	
1β,4aβ-Dicarboxy - 1,2,3,4,4a,9,10,10aα- octahy-		Synthesis of 2,3,4-triphenylfurans & 2,3,4-triphenylfurans	1144
drophenanthrene: Synthetic studies in resin		phenyl-5-methylfurans see Munshi, K. L	1144 336
acid series: Part VII — Syntheses of 1α-methyl-1β,4aβ-dicarboxy-1,2,3,4,4a,9,10,10aβ-		DIKSHITULU, L. S. A.: Behaviour of vanadium	330
octahydrophenanthrene & 1β,4aβ-dicarboxy-		(V) in a mercury reductor	180
1,2,3,4,4a,9,10,10aα-octahydrophenanthrene	948	6,7-Dimethoxy-3-(2-carboxybenzyl)isocoumarins:	100
Dichloroanilines: Reaction of dimethyl- &		Isocoumarins: Part XIII — Synthesis of some	
dichloroanilines with acrylic & methyl-		7-methoxy- & 6,7-dimethoxy-3-(2-carboxy-	
acrylic acids '	351	benzyl)isocoumarins & related substances	573
			40.44
			1341

			PAG
2',4' - Dimethoxy - 2 - dehydroisovalerophenone:		Part V — Zinc acetate-catalysed self-con-	
Essential oil of Ageratum conyzoides — Trans-		densation & condensation with phenol of	
formation of 7-methoxy-2,2-dimethylchromene to 2',4'-dimethoxy-2,dehydroisovalero-		2,6- & 2,4-dimethylolphenols	80
phenone & its dihydro derivative	1123	5,7-Dimethylphthalide: A short synthesis of	
5,6-Dimethoxyisatylidenes: Stereochemistry of	1123	5,7-dimethylphthalide	77
5,6-dimethoxyisatylidenes	906	6,6-Dimethylpyranoisoflavones: Synthesis of 6,6-dimethylpyranoisoflavones & 4-hydroxy-	
3-(3',4'-Dimethoxyphenyl)-6,7-dimethoxyisocou-		3-phenyl-6",6"-dimethylpyranocoumarins (iso-	
marin: 3-Arylisocoumarin: Synthesis of		flavonols)	79
3-(3',4'-dimethoxyphenyl)-6,7-dimethoxyiso-		Dimethyl sulphoxide: Elimination reaction of	,,
coumarin	474	secondary alcohol tosylates in dimethyl	
N,N-Dimethylacetamide: N,N-Dimethylforma-		sulphoxide	58
mide & N,N-dimethylacetamide complexes of oxovanadium(IV)	840	Solubilities of some tetraalkylammonium	
p-Dimethylaminoanil: Adsorption of Zn(II),	010	& alkali metal halides in dimethyl	
Cd(II) & Hg(II) complexes with p-dimethyl-		sulphoxide	61
aminoanil of methyl glyoxal on silica gel	768	Dimethylsulphoxonium methylide: Synthesis of heterocyclic compounds: Part XIV — Inter-	
Dimethylanilines: Reaction of dimethyl- & di-		action of dimethylsulphoxonium methylide	
chloro-anilines with acrylic & methylacrylic		with quinoline-N-oxide & 7-methoxy-4-phe-	
acids	351	nylquinoline-N-oxide	123
2,4-Dimethyl-7,8-benzoquinoline: Reactions &	1016	DINDI SATYANARAYANA SEE DIKSHITULU,	120
synthesis of 2,4-dimethyl-7,8-benzoquinoline	1016	L. S. A	18
Dimethylcyclohexanone-1,6-dicarboxylate: Dehydrogenation of dimethyl cyclohexanone-1,6-		2,4-Dinitrobenzyl chloride: Isotopic exchange	
dicarboxylate to dimethyl 2-hydroxy-		reactions between 2,4-dinitrobenzyl chloride	
isophthalate	223	& chloride ions in mixed solvents	108
5,7-Di-O-methyleucomol: Synthesis of eucomin,		2,4-Dinitrophenylhydrazine: Reactions of 2'-	
4'-demethyleucomin & 5,7-di-O-methyl-		hydroxy 4'-methoxydibenzoylmethane & a-bromo-2'-hydroxy-5'-methyl-4-methoxydiben-	
eucomol	554	zoylmethane with 2,4-dinitrophenylhydrazine	22
N,N-Dimethylformamide & N,N-dimethyl-	040	Dioxane: Thermodynamics of nitromethane	44
acetamide complexes of oxovanadium(IV)	840	solutions: Part I — Excess volumes of mixing	
Polarographic studies on Zn(II)-pyri- doxine system in water, water-formamide		of binary solutions of nitromethane with	
& water-dimethylformamide media	531	benzene, dioxane & chloroform	620
Dimethyl 2-hydroxyisophthalate: Dehydroge-		2,3-Dioxobutyranilide-2-oxime: Ni(II) & Co(II)	
nation of dimethyl cyclohexanone-1,6-dicar-		chelates of 2,3-dioxobutyranilide-2-oxime	53'
boxylate to dimethyl 2-hydroxyisophthalate	223	Dioxouranium(VI): Solvolytic equilibria in methanol & acetonitrile of some dioxoura-	
3,7-Dimethyl-2,6-octadien-1-ol: Organosilicon		nium(VI) complexes with hexamethyl phos-	
derivatives of terpene alcohols: Part I—		phoramide	977
Reactions of citronellol (3,7-dimethylocten-1-		Diphenyl: Eutectic solidification & liquid	,
ol) & geraniol (3,7-dimethyl-2,6-octadien-1-ol) with chloro- & alkoxy-silanes	1099	eutectic: Part I - Binary mixtures of naph-	
3,7-Dimethylocten-1-ol: Organosilicon deri-	2077	thalene & diphenyl	72
vatives of terpene alcohols: Part I — Re-		Diphenylamine: Methylene blue, rose bengale	
actions of citronellol (3,7-dimethylocten-1-ol)		& eosin sensitized photooxidation of di-	400
& geraniol (3,7-dimethyl-2,6-octadien-1-ol)	4000	phenylamine	422
with chloro- & alkoxy-silanes	1099	Titrimetric determination of arsenic(III) with potassium dichromate using diphe-	
Dimethylolphenols: Kinetics & mechanism of		nylamine & diphenylbenzidine as redox	
phenol-formaldehyde reaction: Part II—		indicators	203
Acid-catalysed self-condensation reactions of mono- & dimethylolphenols	691	Diphenylaminoalkanamines, alkanamides &	
Part IV → Reaction of mono- & dimethy-	0,2	ω-amino-N,N-diphenylalkanamides as poten-	
lolphenols with phenol at equimolar con-		tial biodynamic agents	31
centrations	799	Diphenylbenzidine: Titrimetric determination	
2.4-Dimethylolphenols: Kinetics & mechanism		of arsenic(III) with potassium dichromate	
of phenol-formaldehyde reaction: Part III —		using diphenylamine & diphenylbenzidine as	201
Acid-catalysed condensation reactions of 2,4-	706	redox indicators Diphenylbutadienes: Studies in cycloadditions:	203
& 2,6-dimethylolphenols with excess phenol	796	Part IV — Regio- & stereo-selectivity by Lewis	
Part V — Zinc acetate-catalysed self-		acid catalysts in the condensation of diphenyl-	
condensation & condensation with phenol of 2,6- & 2,4-dimethylolphenols	802	butadienes & β-nitrostyrenes	331
2,6-Dimethylolphenols: Kinetics & mechanism		Diphenyl sulphoxide: Adducts of diphenyl	
of phenol-formaldehyde reaction: Part III —		sulphoxide with Sn(II) chloride & bromide &	
Acid-catalysed condensation reactions of		phenyltin(IV) & ethyltin(IV) chlorides	766
2,4- & 2,6-dimethylolphenols with excess	506	Dipolar aprotic solvents: Structural & solvent	
phenol	796	effects on the alkaline hydrolysis of alkyl	

	PAGE		PAGE
acetates in protic & dipolar aprotic		EDTA: Spectrophotometric studies on colour-	
solvents	597	less complexes of Fe(III) with oxalic, citric &	
Dipterocarpus macrocarpus: Chemical compo-		malonic acids & EDTA using 5-sulphosalicylic	=
nents of the heartwood of Dipterocarpus		acid as an auxiliary ligand EID, MOHGA M. see MANSOUR, ABDEL KADER	536
macrocarpus: Isolation of two new sesquiter- penes, dipterolone & dipterol	520	EL-ATRASH, ALI M.: Isotopic exchange reactions	301
Dipterol: Chemical components of the heartwood		between 2,4-dinitrobenzyl chloride & chloride	
of Dipterocarpus macrocarpus: Isolation of		ions in mixed solvents	1080
two new sesquiterpenes, dipterolone &	520	EL-EBRASHI, N. M. A. see HISHMAT, O. H	1052
dipterol Dipterolone: Chemical components of the heart-	520	EL-GAMAL, M. H. A.: Mass spectra of some triterpenoids with modified ring-A	1261
wood of Dipterocarpus macrocarpus: Isolation		EL-GENDY, Z. see ZAHER, H. A	1264 1212
of two new sesquiterpenes, dipterolone &		EL-KASHEF, H. S. see EL-MAGHRABY,	1414
dipterol	520	M. A	1058
Dipyridyl: Studies in mixed ligand complexes:		EL-MAGHRABY, M. A.: Synthesis of glycylamino-	40 = 0
Part VIII — Formation constants of the complexes of Cu(II), Ni(II), Zn(II) & Cd(II) with		thiazoles see Hassan, Kh. M	1058 1031
dipyridyl/o-phenanthroline as primary ligands		EL-MELIGY, M. S. see ISSA, I. M.	877
& ethylene & propylenediamines as secondary		ELNAGDI, MOHAMED HILMY see KHALIFA,	
ligands	402	MOHAMED ALI ELSAYED	46
Disulphuric acid: Nature of the solutions of oxygen bases in highly acidic media: Part IV		EL-NAGGAR, A. M.: Synthesis of some peptides	1171
— Behaviour of dicarboxylic acids & their		containing lysine, serine & glycine see SALEM, E. M. S	1161 1071
esters in fluorosulphuric & disulphuric		EL-NAMAKY, H. M. see GOGTE, V. N	1234
acids Diterpene alkaloids: Structure of vakogna-	1190	EL-SABBAH, M. M. B. see HASSAN, E. A	87
Diterpene alkaloids: Structure of vakogna-	1210	EL-SHERIEF, H. A. H. see BADR, M. ZARIF A.	1015
vine Ditertiaryarsines: Complexes of metal ions with	1219	EL-SHETARY, B. A. see EL-ATRASH, ALI M	1215 1080
phosphorus or arsenic containing ligands:		EL-Sissi, H. I. see Salem, E. M. S	1071
Part XVI — Complexes of ditertiaryphos-		EL-TAWIL, B. A. H. See EL-GAMAL, M. H. A	1264
phines/arsines with ruthenium(II) dicarbo-		Eosin: Methylene blue, rose bengale & eosin	
nyldihalides	834	sensitized photooxidation of diphenyl-	100
Ditertiaryphosphines: Complexes of metal ions with phosphorus or arsenic containing ligands:		amine Epoxide: A novel cleavage of a steroid epoxide	422
Part XVI — Complexes of ditertiaryphos-		on Ritter reaction	992
phines/arsines with ruthenium(II) dicarbo-		Photo-oxidative cleavage of epoxides	1009
nyldihalides	834	Ethane-1,2-dithiol: Polarographic behaviour of	W @ O
2,4-Dithiobiurets: Ionization constants of some 1,5-disubstituted 2,4-dithiobiurets at different		ethane-1,2-dithiol 2'-Ethoxycarbonyl-1',3'-dimethyl-4,4'-dioxo-4',	528
temperatures	874	$5'$,6',7'-tetrahydrospiro($\Delta^{2,3}$ -cyclohexene)-1,5'-	
Dithiocarbamate: Thermal decomposition of		(1H)-indole: Formation of 2'-ethoxycarbonyl-	
the complexes of dithiocarbamate & substi-		1',3' - dimethyl-4,4'-dioxo-4',5',6',7'-tetrahy-	
tuted thiourea with Ni(II), Zn(II), Cd(II),	838	drospiro($\Delta^{2,8}$ - cyclohexene) - 1,5' - (1H) - indole	
Cr(III) & Co(III) Dithiooxamide: Infrared spectra of dithiooxa-	030	during Robinson's annelation reaction with 2-ethoxycarbcnyl-5-formyl-1,3-dimethyl-4-	
mide & its complexes	1092	oxo-4,5,6,7-tetrahydroindole	1209
DIXIT, B. S.: Chemical examination of the seeds		2-Ethoxycarbonyl-5-formyl-1,3-dimethyl-4-oxo-	
of Corchorus aestuans Linn	780 224	4,5,6,7-tetrahydroindole: Formation of 2'-	
DOIFIODE, K. B. see WADODKAR, K. N DOSHI, G. R. see SASTRY, V. N	200	ethoxycarbonyl-1',3'-dimethyl-4,4'-dioxo-4', $5'$,6',7'-tetrahydrospiro($\Delta^{2,3}$ -cyclohexene)-1, $5'$	
Doss, N. L. see Nosseir, M. H	668	-(1H)-indole during Robinson's annelation	
DURGAPRASAD, G.: N,N-Dimethylformamide &		reaction with 2-ethoxycarbonyl-5-formyl-1,3-	
N,N-dimethylacetamide complexes of oxo-	0.40	dimethyl-4-oxo-4,5,6,7-tetrahydroindole	1209
vanadium(IV) Dutt, N. K.: Chemistry of lanthanons: Part	840	Ethoxycarbonylnitrene: Fused aziridines: Part II — Reaction of photochemically generated	
XXXIX — Acetoacetanilide complexes of		ethoxycarbonylnitrene with 16-dehydropreg-	
lanthanons	1320	nenolone acetate	117
DUTT, SACHCHIDANANDA: Synthesis of D-homo-		Ethylammonium fluorides: Fluoro complex salts	
3-methoxy-18-noroestra-1,3,5(10)-triene-17a,	260	of thorium(IV) with methyl- & ethylammo-	
18-dicarboxylic acid DUTT, YAG see SINDHWANI, S. K	360 110	nium fluorides, pyridinium, substituted pyridinium, quinolinium & anilinium fluorides &	
DUTTA, N. L. SEE MAHATO, S. B,	888	ethylenediammonium & o-phenylenediammo-	
DUTTA, PHANINDRA C. see CHAKRABORTTY,		nium fluorides	1302
PRATUL N	948	Ethyl 3-[o-arsonophenyl)imino]butyrate: Metal	
DUTTA, PRITHWIS R. See CHARRABORTTY,	948	chelates with Schiff bases: Part I — Co(II), Ni(II), Cu(II), Zn(II) & Cd(II) complexes with	
PRATUL N	710	And the second s	

ethyl 3-[(o-arsonophenyl)imino]butyrate & N- (1-methyl-3-oxobutylidene)-o-arsanilic acid Ethylbenzene: Thermodynamics of binary mix- tures: Excess Gibbs energies & surface tension of binary mixtures of cyclohexane with o-	830	Ethyltin(IV) chloride: Adducts of diphenyl sulphoxide with Sn(II) chloride & bromide & phenyltin(IV) & ethyltin(IV) chlorides Ethynyl phenyl ketone: Reaction of ethynyl phenyl ketone with some chlorocyclopenta-	766
xylene, m-xylene p-xylene & ethylbenzene in		dienes	648
Vapour pressures & excess Gibbs energies	714	Eucomin: Synthesis of eucomin, 4'-deme hyl- eucomin & 5,7-di-O-methyleucomol	554
for the binary mixtures of ethylbenzene with cyclohexane & carbon tetra-	M4.0	[Eu(DPM) ₃]-induced shifts in steroids: Part I — A study of bifunctional molecules	926
chloride Ethyl bromide: Kinetics of reactions of thio-	718	Г	
ureas with ethyl bromide, allyl chloride &		FAIZ WARIS SEE AHMAD, M. S	455
benzyl chloride in ethanol Ethyl chloroformate: Interaction of ethyl	969	FALTAOOS, B. N. see GAWARGIOUS, Y. A	1113
chloroformate & 1-methyl-2,4-dithiobiuret:		FATHY KHALIFA see GAMIL AZIZ Fe(III): Cu(II), Ni(II) & Fe(III) chelates of	. 481
Formation of a novel complex compound &		2- hydroxy -5- methyl -3- nitroacetophenone -	
1,3,5-triazine derivatives	38	ethylenediamine & Fe(III) chelate of corres-	m.
Ethylene: Thermo-osmosis of quaternary gaseous mixtures of oxygen, nitrogen, ethyl-		ponding oxime Spectrophotometric studies on colourless	764
ene & carbon dioxide through unglazed		complexes of Fe(III) with oxalic, citric	
porcelain	1273	& malonic acids & EDTA using 5-sulpho-	44.1
Ethylene-1,2-bis-diphenylarsine: Complexes of ditertiary phosphine/arsine oxides with metal		salicylic acid as an auxiliary ligand Studies on Cr(III), Fe(III) & Co(III)	536
ions: Part VII — Complexes of La(III),		complexes of bis-(2,5-dihydroxyaceto-	
Nd(III) & Sm(III) nitrates with oxides of		phenone)ethylenediamine	1002
ethylene-1,2-bis-diphenylphosphine/arsine & butylene-1,4-bis-diphenylphosphine/arsine	1102	Feldspar: Adsorption of methylene blue, crystal violet & malachite green on bentonite, vermi-	
Ethylene-1,2-bis-diphenylphosphine: Complexes	1104	culite, kaolinite, asbestos & feldspar	1187
of ditertiary phosphine/arsine oxides with		Ferricyanide: Studies on heteronuclear inter-	
metal ions: Part VII — Complexes of La(III),		valence transfer: Part III — Ferricyanide	
Nd(III) & Sm(III) nitrates with oxides of ethylene-1,2-bis-diphenylphosphine/arsine &		super complexes of bivalent transition elements	90
butylene-1,4-bis-diphenylphosphine/arsine	1102	Ferricyanide ion: Oxidation kinetics of thio-	
Ethylenediamine: Cu(II), Ni(II) & Co(II)		• salicylic acid by ferricyanide ion in acid	11//
chelates of Schiff bases, 2,5-dihydroxyaceto- phenone-ethylenediamine & 2-hydroxy-5-		medium Flemichin-A, a novel chromenoflavanone from	1166
methylacetophenone-isopropylenediamine	771	the roots of Flemingia wallichii W & A	762
Cu(II), Ni(II) & Fe(III) chelates of 2-		Flemingia wallichii W & A: Flemichin-A, a	
hydroxy-5-methyl-3-nitroacetophenone- ethylenediamine & Fe(III) chelate of		novel chromenoflavanone from the roots of Flemingia wallichii W & A	762
corresponding oxime	764	Fluorosubstituted aromatic systems: Molecular	702
Medium effects on proton-transfer complex		orbital study of some fluorosubstituted aro-	
between p-nitrophenol & ethylene-	92	matic systems using a variable electronegati- vity formalism	601
diamine	94	Fluorosulphuric acid: Nature of the solutions of	001
with ethylenediamine, monoamino acids		oxygen bases in highly acidic media: Part IV	
& polyphenols	214	— Behaviour of dicarboxylic acids & their	1100
Studies in mixed ligand complexes: Part VIII — Formation constants of the com-		esters in fluorosulphuric & disulphuric acids Fokienol: Terpenoids: Part LXXIX —Synthesis	1190
plexes of Cu(II), Ni(II), Zn(II) & Cd(II)		of 2,6,10-trimethyldodeca-1,6-trans-3-cis-11-	
with dipyridyl/o-phenanthroline as pri-		tetraen-10-ol, a stereoisomer of fokienol	68
mary ligands & ethylene- & propylene- diamines as secondary ligands	402	Formaldehyde: Energy of activation for the steady state oxidation of methanol, form-	
Ethylenediammonium fluorides: Fluoro complex	102	aldehyde, glycol & glyoxal at platinized	•
salts of thorium(IV) with methyl- & ethyl-		platinum electrodes	1077
ammonium fluorides, pyridinium, substituted pyridinium, quinolinium & anilinium fluo-		Kinetics & mechanism of phenol-formal- dehyde reaction: Part II — Acid-cata-	
rides & ethylenediammonium & o-phenylene-		lysed self-condensation reactions of mono-	
diammonium fluorides	1302	& dimethylolphenols	691
Ethylene glycol: Conductance of cesium chloride	998	Part III — Acid-catalysed condensation reactions of 2,4- & 2,6-dimethylolphenols	
in ethylene glycol Ethyl 11-(2-methylcyclohex-2-en-1-yl)undec-	770	with excess phenol	796
trans-9-enoate: Terpenoids: Part LXXXII		Part IV — Reaction of mono- & dimethy-	
Synthesis of ethyl 11-(2-methylcyclohex-2-en-	1.4 50	lolphenols with phenol at equimolar	700
1-vl)undec-trans-9-enoate	1158	concentrations	799

Part V — Zinc acetate-catalysed self-con-		Gels: Studies on aluminium soaps & their gels	96
densation & condensation with phenol	802	Geraniol: Organosilicon derivatives of terpene alcohols: Part I — Reactions of citronellol	
of 2,6- & 2,4-dimethylolphenols Mechanism of chloramine-T oxidation of	002	(3,7-dimethylocten-1-ol) & geraniol (3,7-di-	
formaldehyde & acetaldehyde	311	methyl-2,6-octadien-1-ol) with chloro- & alk-	
Formamide: Polarographic studies on Zn(II)-		oxy-silanes 474	1099
pyridoxine system in water, water-formamide & water-dimethylformamide media	531	GHOSAL, M. SEE SYED NIZAMUDDIN 474, GHOSH, ASHISH KUMAR: Quenching of fluores-	, 1050
Polarography of nicotinamide complexes of	231	cence of methylene blue by the dye dimer	313
Cd(II) in water-formamide mixtures	765	Extinction coefficient of methylene blue	0.0
Formic acid: Catalytic decomposition of formic	1267	monomer	897
acid on manganese molybdate Formononetin: 7-O-Rutinosides of biochanin-A	1207	aprotic solvents	382
& formononetin: Two new rhamnoglucosides		GHOSH, D. see Adhikari, M	999
of the bark of Dalbergia paniculata	518	GHOSH, N. N.: Complex compounds of N-ben-	
Furocoumarins: Linear furocoumarins: Part VI — O- & C-Allylation of dihydroumbelliferone	564	zenesulphonylglycines with some metal ions: Part XVI — Formation constants of Zn(II)	
o- a o-migration of any droumounterone	501	chelates of N-benzenesulphonyl-L-cysteine	636
G		GHOSH, SANJAY K. see CHAKRABORTTY, PRATUL	0.40
Gallic acid: Influence of oxalate & tartrate on		N GHOSH, UDITA: Studies on heteronuclear inter-	948
titanium-gallic acid/protocatechuic acid/sul- phosalicylic acid systems in weakly acidic		valence transfer: Part III — Ferricyanide	
medium	642	super complexes of bivalent transition ele-	
Nature of species extracted from titanium		ments	90
(IV)-gallic acid-oxalic acid system by triisooctylamine	865	Part IV — Cobalticyanides of bivalent transition metals	652
GAMIL Aziz: Diels-Alder reaction: Addition of	005	Part V — Role of exchange interaction in	002
N-arylmaleimides to 1,1-diarylethylenes &	404	intervalence transfer	653
1,1-diaryl-2-bromoethylenes GANDHI, R. P.: Fused aziridines: Part II —	. 481	Glauber's salt: Studies on polyanions & poly- cations by Glauber's salt cryoscopy: Part V	
Reaction of photochemically generated eth-		- Polyanions of molybdenum & their equi-	
oxycarbonylnitrene with 16-dehydropregne-		librium processes	178
nolone acetate	117	Glochidone: A simplified route to glochidone	994
GANDIKOTA, MURALI KRISHNA: Titrimetric determination of arsenic(III) with potassium		from lupeol Glu- Phe- Ala- Ser-Phe:	994
dichromate using diphenylamine & diphenyl-		Synthetic substitute enzymes: Part VI — Syn-	
benzidine as redox indicators	203	thesis & glycosidase activity of Glu-Phe-Ala-	
GARG, A. N.: Mössbauer study of tris(ethylene-	996	Ala-Glu-Glu-Phe-Ala-Ser-Phe & analogous Ala-7-decapeptide	464
diamine)-iron(III) sulphate GARG, S. K. see MAHAJAN, O. P	1183	Glutamine: Studies on the formation of com-	101
GAUR, D. P.: Organic derivatives of tin: Part		plexes of glutamine with Y(III), La(III),	4000
VII — Reactions of alkyltin triisopropoxides	399	Ce(III) & U(VI)	1322
with bidentate ligands Part VIII — Some insertion reactions	,	metal chelates of l-asparagine & l-glutamine	527
across Sn-O bond	1193	Glycerol: Kinetics of oxidation of glycerol by	
GAUR, H. C.: Chronopotentiometry of Ag(I) in	79	vanadium(V) in sulphuric & perchloric	365
molten sodium nitrate-barium nitrate eutectic see Dhawan, Ranjana	78 613	acids Glycine: Evaluation of stability constants from	303
see Adya, Ashok K 748		polarographic data of irreversible processes:	
GAUR, J. N.: Polarographic maximum of Co(II)	200	Mixed complexes of zinc with glycine &	040
in KCl see Choudhary, K. K	390 655	α-alanine Synthesis of peptides containing L-α, γ-di-	868
GAWAD, D. H. see Joshi, B. S 43'		aminobutyric acid & glycine	1071
GAWARGIOUS, Y. A.: Polarographic microdeter-		Synthesis of some peptides containing	11/1
mination of Cd(II), Zn(II) & Ba(II) in organo-		lysine, serine & glycine Glycol: Energy of activation for the steady state	1161
metallic compounds after oxygen flask com- bustion	1113	oxidation of methanol, formaldehyde, glycol	
GAWISH, ALEF see HATCH, LEWIS F	583	& glyoxal at platinized platinum electrodes	1077
Ge(IV) chloride: Symmetrical & unsymmetrical		Glycollic acid: Polarographic determination of	1207
alkyldithiocarbamate complexes of Sn(IV)	: 1197	lead & cadmium in glycollic acid medium Glycylaminothiazoles: Synthesis of glycyl-	1207
halides & Ge(IV) chloride Ge(IV) halides: Complexes of Ge(IV) & Sn(IV)		aminothiazoles gyvenesis of grycyr	1058
halides with substituted anilines	429	Glyoxal: Energy of activation for the steady	
GeCl ₄ : Spectrophotometric studies on the com-		state oxidation of methanol, formaldehyde,	
plexes of 1-(2-pyridylazo)-2-naphthol with GeCl ₄ , SnCl ₄ & SnBr ₄	540	glycol & glyoxal at platinized platinum electrodes	1077
GeCl ₄ , SnCl ₄ & SnBr ₄	510	0.000.200.000	2000

1345

GOGTE, V. N.: Synthesis of heterocyclic com-		GUPTA, J. see GOPINATHAN, C	103
pounds: Part VIII - Stereochemistry of		see Gopinathan, Sarada	623
hydride transfer reactions in acid-catalysed disproportionation of 2,3-disubstituted N-		GUPTA, J. C. see SHARMA, J. C GUPTA, K. S.: A linear free energy relationship	1177
methyl-1,4-dihydroquinoline derivatives	. 327	for the reactions of tripositive metal ions	
Part IX — Synthesis of heterocyclic com-		with hydrated electrons	990
pounds containing sulphur & nitrogen	1147	GUPTA, Ř. C. see RAJEEV	656
Part X — Synthesis of dibenzacridines & dibenzphenanthridines	1227	GUPTA, R. S. see MAHESH, V. K 5 GUPTA, S. K.: Titrimetric determination of	70, 956
Part XII — Cyclodehydration of 1-aryl-	1227	picryl-N-aminocarbazyl (PAC)	1005
amino-3-alkanols	1234	GUPTA, V. D. see SHARMA, C. K	~ 218
Part XIV — Interaction of dimethylsulph-		GUPTA, Y. K. see SHARMA, P. D	100
oxonium methylide with quinoline-Noxide & 7-methoxy-4-phenylquinoline-		GURUMURTHY, C. V.: A note on the characteristics of bismuth uranates	212
N-oxide	1238	GYANENDRA KUMAR: Studies in anticancer	212
Part XV — Synthesis of dibenzo $[b,j][4,7]$		agents: Syntheses of substituted indazole-	
phenanthroline	1324	quinones, 2-oxophenazines & azaphenazines	129
Synthesis of heterocyclic steroids: Part VIII — Synthesis of key tricyclic inter-			
mediate in the synthesis of 11-aza-19-		TT	
nor-testosterone	1152	Hajela, B. P. see Jain, S. C	843
Part IX — Stereoelectronic controls in		Halide ion: Quenching of fluorescence of pyro-	1205
the synthesis of 4-keto-8-methoxy-6N-methyl-1,2,3,4,4a,5,6,10b-octahydrophen-		nine-G by halide ion in water & methanol 2-Halo-2'-aminobenzanilides: Condensed hetero-	1205
anthridines	1223	tricycles: Synthesis of dibenz $[b,f][1,4]$ oxaze-	
see Dali (née Berde), H. M	1230	pines, dibenz $[b,f][1,4]$ thiazepines & dibenz-	
see Nair, P. M	589	[b,f][1,4]diazepines by cyclication of 2-halo-	227
Gopala Rao, G. see Gandikota, Murali Krishna	203	2'-hydroxy(mercapto/amino)benzanilides 2-Halogenoethylenes: Reactions of 1,1-bis-(\$\phi\$-	227
GOPICHAND, Y. see CHAKRAVARTI, K. K	275	nitrophenyl)-2,2-dihalogenoethanes & 2-halo-	
GOPINATHAN, C.: Organoxy titanium(IV) com-	102	genoethylenes with sodium 2-hydroxyethox-	
pounds: Part II — Titanium(IV) chelates see Gopinathan, Sarada	103 623	ide: Study of antimicrobial activity of <i>p</i> -nitro-& <i>p</i> -amino-derivatives	1063
GOPINATHAN, SARADA GOPINATHAN, SARADA: Thienyl tin(IV) com-	023	3-Halogenoflavanones: Anthoxanthins: Part	1003
pounds	623	XXI — Stereospecific synthesis of 3-halogeno-	
GORE, T. S.: Synthesis of resorcinol-4,6- &	0.46	flavanones & their reduction products	1134
2,4-dicarboxylic acids	946	2 - Halo - 2' - hydroxybenzanilides: Condensed heterotricycles: Synthesis of dibenz[b,f][1,4]-	
petin glycoside from the flowers of <i>Hibiscus</i>		oxazepines, dibenz[b,f][1,4]thiazepines & di-	
vitifolius	890	benz $[b, e][1,4]$ diazepines by cyclization of	
Goswami, K.: Preparation & study of some	050	2 - halo - 2' - hydroxy(mercapto/amino)benzani-	207
monocarbonyl complexes of rhodium(III) GOVIL, G. see PARTHASARATHY, S	858 805	lides α -Haloketones: Heterocyclic systems containing	227
GOVINDACHARI, T. R.: Stereochemistry of tylo-		bridgehead nitrogen atom: Part XVIII—	
phorinidine & tylophorinine Grewia rothii: Chemical constituents of Grewia	886	Reaction of 2-mercapto-s-triazoles with α-	
Grewia rothii: Chemical constituents of Grewia	1018	haloketones & with alkyl halides	485
rothii	1010	2 - Halo - 2' - mercaptobenzanilides: Condensed heteroctricycles: Synthesis of dibenz[b,f][1,4]-	
1,4-benzoxazin-2-ones towards amines, hydra-		oxazepines, dibenz[b, f][1,4]thiazepines & di-	
zines & Grignard reagents	566	benz $[b, e][1,4]$ diazepines by cyclization of	
Reactions of 2-p-anisy1-3(4H), 1-benz-oxazin-4-one with ammonia, primary		2 - halo - 2' - hydroxy(mercapto/amino)benz-	227
amines, hydrazine, phenylhydrazine &		anilides HANDA, V. K. see Vig, O. P	227 1158
Grignard reagents	1212	HAQUE, I. see BORA, T	70
Griseoxanthone-C: Synthesis of griseoxan-	4.4.1	HARIHARAN, V.: Structures of putranosides	
thone C	441 893	from the seed-coats of Putranjiva roxburghii Wall	447
GUJRATHI, N. C.: Infrared spectra & molecular	0,0	Wall see Raghunathan, K	1251
structure: Part IV — Aminophenols	1309	HARJIT SINGH: Synthesis of 1,3-thiazino[2,3-a]-	
GUPTA, A. R. see DEOKI NANDAN	808	isoquinolinium salts & related compounds	1242
GUPTA, C. M.: NMR spectra of 1,2,4-substituted 3-phenyl-cycl[3.2.2]azines	674	HARKISHAN SINGH: Vilsmeier-Haack reaction with steroid lactams	1210
3-phenyl-cycl[3.2.2]azines see Chaturvedi, D. N	531	17a-Methyl-3,17a-diaza-A, D-bishomoand-	1210
see Rawat, P. C Gupta, G. K. see Jain, A. C	174	rost-4a-eno-[3,4-d]tetrazole	1211
GUPTA, G. K. See JAIN, A. C	659 914	HASHEM, A. I.: Polynuclear compounds from	000
GUPTA, HARISH CHAND: Synthesis of nepetin	717	highly conjugated butenolides	902

see Awad, W. I	1060	β-Himachalene: Studies in terpenoids: Part	
HASSAN, E. A.: Activity & activity coefficient		XXXV — Dehydrogenation of a mixture of	
of Ag ⁺ in aqueous polyelectrolyte solutions	87	α- & β-himachalenes: Isolation & characte-	
HASSAN, KH. M.: Reactions of 3-benzalphthalide	1021	rization of bisdehydro-ar-himachalene (6,7-	
& 3-benzalnaphthalide with α-amino acids	1031	benzo-1,5,5,10-tetramethylcyclohepta-1,3,6-	000
see EL-MAGHRABY, M. A	1058	triene)	889
HATCH, LEWIS F.: Elimination reaction of secondary alcohol tosylates in dimethyl sulph-		Synthesis of carbazole derivatives by Diels-	
oxide	583	Alder reaction	493
HAZRA, B. G. see CHATTERJEE, A	41	see Hosmane, R. S	1009
see Chakravarti, K. K	275	HISHMAT, O. H.: Oxidation of styryl derivatives	2007
Helminthosporin: Chemical investigations on		of khellinone & visnaginone	1052
Cassia occidentalis Linn.: Part II — Isolation		D-Homo-3-methoxy-18-noroestra-1,3,5(10)-	
of islandicin, helminthosporin, xanthorin &		triene-17a,18-dicarboxylic acid: Synthesis of	
NMR spectral studies of cassiollin & its		D-homo-3 - methoxy-18 - noroestra - 1,3,5(10)-	
derivatives	1042	triene-17a,18-dicarboxylic acid	360
Hexaalkylgermastannoxane: Synthesis & inser-		C-Homo-B-norestrone: Synthesis of C-homo-B-	
tion reactions of hexaalkylgermastannoxane	(00	norestrone	543
& related compounds	629	B-Homosteroids: Experiments directed towards	4.1
Hexahydronaphthacenes: Tetracyclines: Part X		the synthesis of B-homosteroids	41
— Synthetic approaches for the introduction		Hosangadi, B. D.: Tetracyclines: Part XI— Introduction of additional oxygen functions	
of amine functions in ring-A of hexahydro- naphthacenes	916	in rings B & C of hexahydronaphthacenes	920
Part XI — Introduction of additional oxy-	. 710	see Samant, B. R	916
gen functions in rings B & C of		HOSMANE, R. S.: Synthesis of tryptamine	710
hexahydronaphthacenes	920	analogs of 3H-benz[e]- & 1H-benz[g]-indoles	1009
Hexamethyl phosphoramide: Solvolytic equi-		Hydantoins: Preparation of optically active	
libria in methanol & acetonitrile of some		hydantoins as potential antibacterials	1211
dioxouranium(VI) complexes with hexamethyl		Hydnocarpus wightiana: Constitution of iso-	
phosphoramide	977	hydnocarpin isolated from the seed hulls of	
Hf(IV): Coordination complexes of some group		Hydnocarpus wightiana	888
(IV) halides: Preparation & infrared spectra		Minor phenolic components of seed hulls	
of complexes of Ti(IV), Zr(IV), Hf(IV) &	0.42	of Hydnocarpus wightiana: Constitution	002
Sn(IV) halides with pyruvonitrile as ligand	843	of methoxyhydnocarpin	993
Hg(II): Adsorption of Zn(II), Cd(II) & Hg(II)		Hydrated electrons: A linear free energy relationship for the reactions of tripositive metal	
complexes with p-dimethylaminoanil of methyl glyoxal on silica gel	768	tionship for the reactions of tripositive metal ions with hydrated electrons	990
Complexes of 2-hydroxy-1-mercaptopyri-	,00	Hydrated oxalates: Influence of sample size on	770
midine with Zn(II), Cd(II), Hg(II), Tl(I),		non-isothermal kinetics of dehydration of	
Pb(II), Ag(I) & Au(III)	1096	hydrated oxalates of Mg(II), Ca(II) & Sr(II)	
Complexes of triphenylphosphine sulphide:		& dehydroxylation of Mg(OH) ₂ & \alpha-UO ₃ .H ₂ O	1286
Part I— Nature of the adducts of halides		Hydrazine: Adducts of hydrazine with some	
of Zn(II), Cd(II) & Hg(II) with triphenyl-		Sn(IV) compounds	1304
phosphine sulphide	823	Reactions of 2-p-anisyl-3(4H), 1-benzoxa-	
Stability constants of chelates of VO(II),		zin-4-one with ammonia, primary amines,	
UO ₂ (II), Hg(II) & Cd(II) with 1-hydroxy-	539	hydrazine, phenylhydrazine & Grignard	1212
2-nitrosonaphthalene-4-sulphonic acid Hg(II) thiocyanate: Preparation & spectroscopic	337	reagents Hydrazine dihydrochloride: Kinetics of photo-	1212
studies on 4,4'-bipyridine complexes with		reduction of methyl green in the presence of	
Co(II), Ni(II), Zn(II), Cd(II) & Hg(II) thio-		hydrazine dihydrochloride or sulphate in	
cyanates	107	aqueous medium	142
Hibifolin - A new gossypetin glycoside from the		Hydrazines: Behaviour of 3-styryl-2H-1,4-benz-	
flowers of Hibiscus vitifolius	890	oxazin-2-ones towards amines, hydrazines &	
Hibiscus esculentus Linn.: Chemical examina-		Grignard reagents	566
tion of local plants: Part X — Comparative		Hydrazine sulphate: Kinetics of photoreduction	
studies between the constituents of some parts	4040	of methyl green in the presence of hydrazine	
of Hibiscus esculentus Linn. (Egyptian okra)	1019	dihydrochloride or sulphate in aqueous	1.40
Hibiscus vitifolius: Hibifolin — A new gossypetin		medium	142
glycoside from the flowers of Hibiscus viti-	890	Hydrazoic acid: Reaction of 4-bromocholest-4- en-3-one with hydrazoic acid	580
folius α-Himachalene: Studies in terpenoids: Part	070	Hydride complexes: Hydride & carbonyl com-	200
XXXV — Dehydrogenation of a mixture of		plexes of rhodium & iridium with n-propyl-	
α- & β-himachalenes: Isolation & characte-		diphenylarsine	185
rization of bisdehydro-ar-himachalene (6,7-		Hydroxides: Correlation of zero points of charge	
benzo - 1,5,5,10 - tetramethylcyclohepta-1,3,6-		of solid oxides & hydroxides with partial	
triene)	889	charge of surface oxygen atom	170
			1347

	PAGE		PAGE
m-Hydroxybenzoic acids: Mixed adsorption of m- & p-hydroxybenzoic acids at mercury/solution interface	1294	o-Hydroxyphenylglyoxal: Cyclodehydration of o-hydroxyphenylglyoxal 2-arylhydrazones	139
b-Hydroxybenzoic acids: Mixed adsorption of m- & p-hydroxybenzoic acids at mercury/		IBRAHIM YEHIA, A. see MANSOUR, ABDEL	. 201
solution interface 2-(p-Hydroxybenzyl)-7-hydroxy-6-methoxy-1,2,3,4-tetrahydroisoquinoline (Corgoine): Syn-	1294	KADER ICN: Titrimetric determination of mercaptans with ICN & BrCN IDRISS, K. A. see ISSA, I. M	301 986
thesis of 2-(p-hydroxybenzyl)-7-hydroxy-6-methoxy-1,2,3,4-tetrahydroisoquinoline (Corgoine)	1141	IDRISS, K. A. see ISSA, I. M IKHLAS ABBAS see SHAWALI, AHMAD S ILA, H.: Synthesis of C-homo-B-norestrone	877 298 543
6-Hydroxy-4-methoxy-5-arylacryloyl-benzo[b]-furans: Action of Grignard reagents & aryllithiums on 6-hydroxy-4-methoxy- & 6-hy-		4- Imino-2,6- dithio-1,3,5-thiadiazines: Interaction of carbon disulphide with guanidines: Formation of 4-imino/substituted-imino-2,6-	
droxy-4,7-dimethoxy-5- arylacryloylbenzo[b]- furans 6-Hydroxy-4,7-dimethoxy-5-arylacryloyl-benzo-	668	dithio-1,3,5-thiadiazines INAMDAR, P. K. see GORE, T. S Indazolequinones: Studies in anticancer agents:	490 946
[b]furan: Action of Grignard reagents & aryllithiums on 6-hydroxy-4-methoxy- & 6-hydroxy-4,7-dimethoxy-5-arylacryloyl-benzo-		Syntheses of substituted indazolequinones, 2-oxophenazines & azaphenazines Indian medicinal plants: Chemical components	129
[b]furans	668	of some Indian medicinal plants Indizoline: Isolation & structure of indizoline, a new carbazole alkaloid from Clausena indica	226
methyl-3-propionylpyridines Hydroxylamine: Action of alkali & hydroxyl-	46	Oliv Indole: Synthetic' studies in indole series —	437
amine on S-(1,2-dicarbethoxyethyl)-O,O-di- methylphosphorodithionate (Malathion) 3-Hydroxy-1-mercaptopyrimidine: Complexes of	502	Synthesis of potential pharmacological agents Indole alkaloids: Synthesis of indole alkaloids & related compounds: Part II — Synthesis of	943
3-hydroxy-1-mercaptopyrimidine with Zn(II), Cd(II), Hg(II), Tl(I), Pb(II), Ag(I) & Au(III) 2'-Hydroxy-4'-methoxydibenzoylmethane: Re-	1096	some 12H-benz[f]indolo[2,3-a]pyridocolinium salts Indoles: 3,4-Bridged indoles: Part I — A novel	334
actions of 2'-hydroxy-4'-methoxydibenzoyl-methane & α-bromo-2'-hydroxy-5'-methyl-4-methoxydibenzoylmethane with 2,4-dinitro-		synthesis of 1,3,4,5-tetrahydropyrido[5,4,3-cd]-indole Indophenazines: Studies in antiamoebic agents:	207
phenylhydrazine	224	Syntheses of substituted indophenazines, azaindophenazines & azaquinoxalines Iodide: Effect of pH on the kinetics of	124
droxy-11-methoxy-18-norandrosta-4,8(9),11, 13(14)-tetraene-3-one, a ring-C aromatic steroid	275	adsorption of iodide & cobalt(II) ions on metallic & glass surfaces Iodine: Kinetics of reaction between iodine &	315
2-Hydroxy-5-methylacetophenone-isopropylene- diamine: Cu(II), Ni(II) & Co(II) chelates of Schiff bases, 2,5-dihydroxyacetophenone-	275	Y-picoline Iodobenzene dichloride: New redox titrants in non-aqueous & partially aqueous media: Part	70
ethylenediamine & 2-hydroxy-5-methylaceto- phenone-isopropylenediamine	771	IV — Potentiometric titrations using iodo- benzene dichloride in acetic acid medium	645
7-Hydroxy-4-methylcoumarin: Formation of a byproduct during the preparation of 7-hydroxy-4-methylcoumarin by Pechmann re-		Ipomoea fistulosa: Chemical investigation of Ipomoea fistulosa: Isolation, structure & synthesis of marsilin	281
action 2-Hydroxy-5-methyl-3-nitroacetophenone-ethyl-enediamine: Cu(II), Ni(II) & Fe(III) chelates	657	Iridium: Hydride & carbonyl complexes of rhodium & iridium with n-propyldiphenylarsine	185
of 2-hydroxy-5-methyl-3-nitroacetophenone- ethylenediamine & Fe(III) chelate of corres- ponding oxime	764	ISHAK, NASHED see SAKLA, ALFY BADIE ISLAM, M. R. see ISLAM, N ISLAM, N.: Free volume model for the electrical	1063 705
N-(2-Hydroxy-1-naphthalidene)anthranilic acid: La(III), Ce(III), Pr(III), Nd(III) & Sm(III) chelates of N-(2-hydroxy-1-naphthalidene)-		conductance in glass-forming melts see Zaidi, S. A. A ISLAMUDDIN see Ahmad, M. S	705 1197 1323
anthranilic acid	1321	Islandicin: Chemical investigations on Cassia occidentalis Linn: Part II—Isolation of islandicin, helminthosporin, xanthorin &	
acid: Stability constants of chelates of VO(II), UO ₂ (II), Hg(II) & Cd(II) with 1-hydroxy-2-notrosonaphthalene-4-sulphonic acid	539	NMR spectral studies of cassiollin & its derivatives	1042
4- Hydroxy -3-phenyl-6",6"-dimethylpyranocoumarins: Synthesis of 6,6-dimethylpyranoisoflavones & 4-hydroxy-3-phenyl-6",6"-di-		ISMAIL, Z. M. see HASHEM, A. I. Isohydnocarpin: Constitution of isohydnocarpin isolated from the seed hulls of <i>Hydnocarpus</i>	902
methylpyranocoumarins (isoflavonols)	793	wightiana	888

	PAGE		PAGE
Isopropanol: Effect of heat treatment on the		JAIN, SURENDRA KUMAR: Synthesis of substi-	
activity of ZnO-Al ₂ O ₃ catalysts towards iso-		tuted 3H-phenothiazin-3-ones	780
propanol decomposition	1314	JAIN, S. R.: Thermal studies on some substi-	
Isopropylenediamine: Cu(II), Ni(II) & Co(II) chelates of Schiff bases, 2,5-dihydroxyaceto-		tuted phosphonium perchlorates	1087
phenone-ethylenediamine & 2-hydroxy-5-me-		JAKKAL, V. S. see Momin, A. C JANARDHAN, P. B. see Subbayan, M	752 393
thylacetophenone-isopropylenediamine	771	JASWAL, S. S. See AJIT SINGH	1219
Isotectorigenin from the bark of Dalbergia		see Nazar Singh	1325
sissoo	1118	JATINDER KAUR See VIG, O. P	68
Isovalerate ion: Polarographic studies on the		JAURA, K. L.: Adducts of diphenyl sulphoxide	
complexes of Pd ²⁺ & Cd ²⁺ with valerate & isovalerate ions	655	with Sn(II) chloride & bromide & phenyltin	766
ISSA, I. M.: Oxidation of low valent sulphur	055	(IV) & ethyltin(IV) chlorides Adducts of hydrazine with some Sn(IV)	766 ,
compounds with lead(IV) acetate: Potentio-		compounds	1304
metric determination of bisulphite	877	JAYALAKSHMI, V.: Synthesis of griseoxan-	
see Sherif, M. K	712	thone-C	441
		JAYARAMAN, B. See SINGH, P. R	1306 214
T .		JEJURKAR, C. R. see MAVANI, J. P JHA, J. S. see RAM GOPAL	618
JADHAV, K. S. See THAKUR, S. B	893	Jose, C. I. see Belhekar, A. A	997
JAGANNADHA RAO, K. V. see MADHUSUDHANA		see Gujrathi, N. C see Rao, K. R. K	1309
RAO, J	762	see RAO, K. R. K.	423
JAGDISH CHANDER See VIG, O. P	1156	JOSEPH, K. T. see NAGABHUSHANAM, T	1205
JAHAGIRDAR, D. V. see PALASKAR, N. G	197	JOSHI, B. S.: Comments on some recent papers on the triterpenes of Salacia princides DC	894
see Khanolkar, V. D	870	Flavanones from the stem of Unona lawii	UJT
JAHINE, H. See ZAHER, H. A	1212	Hook. f. & Thoms.: Isolation of lawinal,	
JAIN, A. C.: Isolation & constitution of corylin:		desmethoxymatteucinol, desmethoxy-	
A new isoflavone from the fruits of Psoralea corylifolia	659	matteucinol-7-methyl ether & a synthesis	1024
	1276	of lawinal Isolation & structure of indizoline, a new	1033
JAIN, ABHAY K. SEE SRIVASTAVA, R. C JAIN, C. M. SEE JAIN, D. V. S	178	carbazole alkaloid from Clausena indica	
JAIN, D. S. SEE CHAUDHARY, K. K	655	Oliv	437
see Gaur, J. N	390	JOSHI, K. M.: Mixed adsorption of m- &	
JAIN, D. V. S.: Studies on polyanions & polycations by Glauber's salt cryoscopy: Part V		p-hydroxybenzoic acids at mercury/solution	1204
- Polyanions of molybdenum & their equi-		interface	1294
librium processes	178	studies of sitost-4-en-3-one from Tabebuia	
Thermodynamics of binary mixtures:		rosea DC	903
Excess Gibbs energies & surface tension		Joshi, P. P.: Structure & stereochemistry of	
of binary mixtures of cyclohexane with o-xylene, m-xylene, p-xylene & ethylben-		cocsolin Structure & stereochemistry of cocsulinin	649
zene in surface phase	714	JOSHI, VIDYA: Chemical components of some	517
Vapour pressures & excess Gibbs energies		Indian medicinal plants	226
for the binary mixtures of ethylbenzene		Joshua, C. P.: Interaction of dicyandiamide	
with cyclohexane & carbon tetra-	718	with thiocarbamide: Formation of 2,4-di-	
chloride Vapour pressures & excess Gibbs energies	/10	amino-6-mercapto-s-triazine (thioammeline) & biguanide	496
for the system cyclohexane+isooctane		Oxidation of mixtures of thiocarbamides:	170
(2,2,4-trimethylpentane)	721	Part II — Oxidation of mixtures of 1-	
Vapour pressures & excess Gibbs energies		alkyl-3-arylthiocarbamides & thiocarba-	
for the systems $SiCl_4+n$ -heptane & $SiCl_4+p$ -xylene	724	mide: Formation of 3-amino-5-alkylimino-4-aryl-1,2,4-\Delta^2-thiadiazolines	962
JAIN, PADAM C.: β-Adrenoceptor blocking	124	Photochemical cyclodehydrogenation of	702
agents: Part I - Phenoxypropanolamines &		azobenzene dicarboxylic acids	60
phenethanolamines carrying groups capable of	1001		
strong bonding	1021 1209	**	
see Bhagavatheeswaran, H. see Mukerjee, Yatindra N.	331	Kaistha, B. C. see Mahajan, O. P	. 1183
See Rao, V. Aruna	425	see FURI, D. R	161
see Saxena, Anil K	892	KAKKAR, S. N. see KHADIKAR, P. V	1319
JAIN, S. C.: Coordination complexes of some		KALANAND PRASAD see RASTOGI, R. P	974
group (VI) halides: Preparation & infrared		KALRA, A. J.: Synthesis of flavone glucosides of Cirsium lineare	1040
spectra of complexes of Ti(IV), Zr(IV), Hf(IV) & Sn(IV) halides with pyruvonitrile as ligand	843		06, 410
JAIN, S. K. see GAUR, H. C	78		2, 1223

	11101		4.0
KAMBOJ, V. P. see Dikshit, D. K	1144 -	KHAN, MOHD MAHFOOZ: Cinchonine complexes	
Kaolinite: Adsorption of methylene blue,			11
crystal violet & malachite green on bentonite,			52
vermiculite, kaolinite, asbestos & feldspar	1187		75
	767	Transaction Contract D. D.	92
KAPADIA, R. N. See TALATI, A. M	1144	,	24
KAPIL, R. S. see DIKSHIT, D. K			15
see Munshi, K. L 651	336		
KAPILA, V. P. See PAUL, RAM CHAND 651, 82			70
KAPOOR, R. C. see PANPALIA, S. S	1166		97
Karanjin: Pongaflavone, a new chromenochro-		KHANOLKAR, V. D.: Potentiometric & spectro-	
mone & an analogue of karanjin isolated from		photometric studies on Cu(II)-3,5-dibromo-	
Pongamia pinnata (Linn.) Pierre (syn. P.	_		370
glabra)	8	KHARE, V. B.: Anthoxanthins: Part XXI —	
KARKHANAVALA, M. D. see Momin, A. C	752	Stereospecific synthesis of 3-halogenoflava-	
see Phadnis, A. B	1286		34
Karnik (née Mathure), Shobha: Isocoumarins:		Khellinone: Oxidation of styryl derivatives of	
Part XIII — Synthesis of some 7-methoxy-)52
& 6,7-dimethoxy-3-(2-carboxybenzyl)isocou-		KHULLAR, I. P.: Complexes of 2-hydroxy-1-mer-	
marins & related substances	573	captopyrimidine with Zn(II), Cd(II), Hg(II),	
KASTURI, T. R.: Essential oil of Ageratum		Tl(I), $Pb(II)$, $Ag(I)$ & $Au(III)$ 10	96
conyzoides - Transformation of 7-methoxy-		(±)-Khusitene: Terpenoids: Part LXXXI—	
2,2-dimethylchromene to 2',4'-dimethoxy-2-)50
dehydroisovalerophenone & its dihydro deri-		KIRTANY, J. K.: Transformation products of	
vative	1123	2-methyl-6-p-tolylhept-2-en-6-ol & comments	
KAUL, K. N. see OZHA, D. D	1321	on the assigned structure of curcumene	
KBr: Electrical conductivity of binary mixtures			202
of molten LiBr & KBr	816	Kitol acetate: Preparation of kitol acetate	
KCl: Polarographic maximum of Co(II) in		from retinyl acetate by the action of indirect	
KCl	390		216
K ₂ CrO ₄ : Chemical effects of ⁵¹ Cr neutron capture		K(I) nitrate: Theoretical e.m.f. for galvanic	110
recoils in K ₂ CrO ₄ -K ₂ SO ₄ mixed crystals	712	cells containing a single solid or molten Ag(I),	
KEER, H. V. see Bodas, M. G	1310	Li(I), Na(I), K(I), Mg(II), Ca(II), Ba(II) &	
KEKRE, M. G. See KHADIKAR, P. V	213		748
KESAVAN, V. see ARUMUGAM, N	323	KOTHARI, H. K. see DAVE, L. D. 764, 7	
Kesavan Nambisan, P, N. see Joshua, C. P	962		200
KESSAR, S. V.: Azasteroid: Part XII — Syn-	70-	Krishnamoorthy, T. S.: Influence of oxalate &	100
		tartarate on titanium-gallic acid/protocate-	
thesis of (+)-13,16-diaza-15-oxo-18-norequi-	113	chuic acid/sulphosalicylic acid systems in	
lenin methyl ether Synthetic studies in steroidal sapogenins	210		542
& alkaloids: Part XI — Synthesis of		see Biswas, S. P.	365
	1245	KRISHNAMURTY, H. G.: Chemical components	000
verazine Total synthesis of chelerythrine chloride	1415	of the heartwood of Dipterocarpus macrocar-	
	323	pus: Isolation of two new sesquiterpenes,	
through a novel route	رسر		20
4-Keto-8-methoxy-6N-methyl-1,2,3,4,4a,5,6,10b-			520
octahydrophenanthridines: Synthesis of		Synthesis of eucomin, 4'-demethyleucomin	
heterocyclic steroids: Part IX — Stereo-			554
electronic controls in the synthesis of 4-keto-		Variation M. T A T. 40	564
8-methoxy-6N-methyl-1,2,3,4,4a,5,6,10b-octa-	1223)40
hydrophenanthridines	1443	KRISHNAN NAMBISAN, P. N. see RAMACHANDRAN	
KEWAL KRISHAN: Reaction of sodium boro-		NAIR, C. G 6 KRISHNA RAO, G. S. see NAMBUDIRY,	545
hydride with open-chain conjugated azo-	222	M. E. M. G. S. See NAMBUDIRY,	300
methine N-oxides (nitrones)	222	M. E. N 775, 8 see Mane, R. B 932, 936, 9	189
KHADIKAR, P. V.: Absorption spectra of some	212	See MANE, R. B 932, 936, 9	38
nickel(II) complexes	213	K ₂ SO ₄ : Chemical effects of ⁵¹ Cr neutron capture	***
Metal chelates of 2',4'-dihydroxychalkone	1319		712
KHALAF, ALI ALI: Friedel-Crafts chemistry:		Kuchhal, R. K.: Studies on 2,2-diethyl-1,3-bis-	
Part VI — Reaction of 1-chloro-3-methyl-3-		(2-cyanoethoxy)propane: A new stationary	200
p-tolylbutane with aluminium chloride cata-			322
lyst, in carbon disulphide & petroleum ether	470	KUDAV, N. A.: Chemical investigations on	
solvents	476	Cassia occidentalis Linn.: Part II — Isolation	
see Osman, A. M	120	of islandicin, helminthosporin, xanthorin &	
KHALIFA, MOHAMED ALI ELSAYED: Behaviour		NMR spectral studies of cassiollin & its	
of 3-styryl-2H-1,4-benzoxazin-2-ones towards	FCC)42
amines, hydrazines & Grignard reagents	566	Part III — Synthesis of 5-carbmethoxy-1,7-	
Synthesis of some new 2-hydroxy-4,6-di-		dimethoxy-3-methylxanthone & the	,
methyl-3-propionylpyridines	46	structure of cassiollin 10)45

	PAGE		PAGE
Kulkarni, A. B. see Dighe, S. S. 413 see Hosangadi, B. D see Khare, V. B	1134	Polarographic determination of lead & cadmium in glycollic acid medium Polarographic studies on cadmium & lead complexes of thiosinamine in aqueous &	1207
see Kudav, N. A 1042,	1045 0, 926	aqueous-methanolic solutions Simultaneous determination of lead &	174
see Pol, V. A see Samant, B. R	64 916	silver: Extraction of lead as xanthate Lead(IV) acetate: Amperometric determination	903
	7, 992 7, 236,	of Tl(I), Sb(III) & V(IV) with lead(IV) acetate Oxidation of low valent sulphur compounds	540
Kulkarni, G. H. see Bankar, N. S Kulkarni, S. Y. see Shah, V. G.	7, 258 1012 419	with lead(IV) acetate: Potentiometric determination of bisulphite Lead dioxide: Electrical double layer capacity	877
KULSHRESTHA, S. K.: Dalbergiphenol, a new constituent of the heartwood of Dalbergia sissoo	10	& adsorption phenomenon of methanol on lead dioxide Lewis acid: Studies in cycloadditions: Part IV	1180
KUMAR, RITA SEE TREHAN, I. R. KURIACOSE, J. C. SEE SRIDHAR, N SEE UMA, R	109 1171 1314	— Regio- & stereo-selectivity by Lewis acid catalysts in the condensation of diphenyl-butadienes & β-nitrostyrenes	331
KURODA, H. see BHAT, S. N	1313	Li ⁺ : Ionic conductivity & transport parameters in KCl crystals doped with Li ⁺ , Pr ⁸⁺ &	
-		SO_4^{2-} Li_2 : A study of bond formation in the Li_2	607
La(III): Complexes of ditertiary phosphine/ arsine oxides with metal ions: Part VII — Complexes of La(III), Nd(III) & Sm(III)		molecule	145
nitrates with oxides of ethylene-1,2-bis-di- phenylphosphine/arsine & butylene-1,4-bis- diphenylphosphine/arsine	1102	esters of α-diketones Li(I) nitrate: Theoretical e.m.f. for galvanic cells containing a single solid or molten Ag(I),	325
La(III), Ce(III), Pr(III), Nd(III) & Sm(III) chelates of N-(2-hydroxy-1-naphthali- dene)-anthranilic acid	1321	Li(I), Na(I), K(I), Mg(II), Ca(II), Ba(II) & Tl(I) nitrates as electrolytes LiBr: Electrical conductivity of binary mix-	748
Studies on the formation of complexes of glutamine with Y(III), La(III), Ce(III)	1322	tures of molten LiBr & KBr LINGAIAH, P.: Stability constants of chelates of VO(II), UO ₂ (II) & Cd(II) with 1-hydroxy-	816
& U(VI) Lactic acid: Kinetics & mechanism of Ag- catalysed oxidation of lactic, malic & man-		2-nitrosonaphthalene-4-sulphonic acid Lupeol: A simplified route to glochidone from lupeol	5 3 9 9 9 4
delic acids by peroxydisulphate LAHIRI, S.: N-Benzoyl-o-tolylhydroxylamine as a gravimetric reagent for mercury(II)	1177 1206	Lysine: Synthesis of some peptides containing lysine, serine & glycine	1161
See BAG, S. P LAKSHMI, P.: Pongaflavone, a new chromeno-chromene & an analogue of karanjin isolated	1317	3.5	
from Pongamia pinnata (Linn.) Pierre (syn. P. glabra) LAL, B.: Stereochemistry of 5,6-dimethoxy-	. 8	Madhusudhana Rao, J.: Flemichin-A, a novel chromenoflavanone from the roots of Flemingia wallichii W & A	762
isatylidenes	906	Mahajan, O. P.: Adsorption isotherms of ammonia on carbons: Effect of surface oxygen com-	
steroids: Part I — A study of bifunctional molecules Pyridine-induced shifts in PMR spectra of	926	plexes	1183 161 1245
conjugated ketones & their comparison with benzene-induced shifts	500	MAHAJANSHETTI, C. S.: 2-Methyl-3-phenyl-quinoxalines & their styryl derivatives	54
Landage, A. B. see Narayanan, C. R Lasiocephalin: Experiments towards the synthesis of lasiocephalin & its constitution	992 295	MAHAN, ASHOK see TRIPATHI, VIJAY SHANKAR MAHAPATRA, G. N. see BEHURA, B MAHATO, S. B.: Structure of careyagenol-E, a	1199 781
Structure & synthesis of lasiocephalin Lawinal: Flavanones from the stem of <i>Unona lawii</i> Hook, f. & Thoms.: Isolation of lawinal,	450	new triterpenoid sapogenol from Careya arborea seeds see Sahu, N. P	888 284
desmethoxymatteucinol, desmethoxymatteucinol-7-methyl ether & a synthesis of	1033	MAHESHWARI, R. C. see Suri, K. S MAHESH CHANDRA see SINGH, B MAHESH, V. K.: Behaviour of dehydracetic	620 631
lawinal Lead: Magnetic susceptibility & IR data of calcium-lead hydroxylapatites	523	acid with carbonyl reagents: Synthesis of a new pyridinopyrazoles	570
			1351

	PAGE		PAGE
Condensation products of dehydracetic acid with aromatic aldehydes & pyrazolines derived from them	956	Kinetics & mechanism of oxidation of substituted mandelic acids by bromine in acid solution	507
Maheshwari, A. K. see Gaur, J. N Maheshwari, G. L. see Srivastava, S. P	390 72	MANE, R. B.: Studies in terpenoids: Part XXVII - Reactions of phenyl camphoric	000
MAHESHWARI, M. L.: Seychellene & seychelane from Nardostachys jatamansi	1221	acid Part XXVIII — Synthesis of dehydro-ar-	932
MAHESHWARI, S. C. see MALIK, W. U MAHEY, SULEKHA: Nuclear prenylation of 5,7-dihydroxycoumarin: Synthesis of coumarrayin & toddaculin	768 29	part XXIX — Synthesis of xanthorrhizol MANGALY, JESSY J.: Electrophilic catalysis in solvolytic reactions: Part XI — Order with	936 938
rayin & toddaculin	48 183	respect to catalyst in mercuric chloride catalysed solvolysis of alkyl chlorides Manganese(II): Diethoxyphosphato complexes	695
MAJAR SINGH see GANDHI, R. P Malachite green: Adsorption of methylene blue,	117	of vanadium(III), chromium(III), manganese(II) & copper(II)	827
crystal violet & malachite green on bentonite, vermiculite, kaolinite, asbestos & feldspar Interaction of crystal violet & malachite	1187	Manganese dioxide as sorber in the determination of Ce, Ru, Zr & Cs fission nuclidesfrom seawater by neutron activation ana-	
green with bentonite & their desorption by inorganic & surface active quaternary		lysis	200
ammonium ions MALHOTRA, K. C.: Adducts of Sb(V) chloride & fluoride with dialkyl esters of oxalic, succinic,	165	of formic acid on manganese molybdate Oxidation of propylene on a manganese molybdate catalyst MANIREKAR, S. K.: Kinetics of permanganate	1267 205
malonic & adipic acids Complexes of triphenylphosphine sulphide:	982	oxidation of benzaldehyde & its derivatives	
Part I — Nature of the adducts of halides of Zn(II), Cd(II) & Hg(II) with triphenylphosphine sulphide Nature of the solutions of oxygen bases in	823	in water/acetic acid mixtures MANMEHAR SINGH see KESSAR, S. V MANSOUR, ABDEL KADER: Studies on 1,2,4-triazine derivatives: Part V — Behaviour of	307 1245
highly acidic media: Part IV — Behaviour of dicarboxylic acids & their esters in fluorosulphuric & disulphuric acids	1190	some derivatives of 1,2,4-triazine towards phenylmagnesium bromide, methylating	301
	20, 757	agents & Mannich reaction see Shawali, Ahmad S Marsilin: Chemical investigation of <i>Ipomoea fistulosa</i> : Isolation, structure & synthesis of	298
lic acids by peroxydisulphate MALIK, B. K. see AHLUWALIA, V. K	1177 471	marsilin	281
Malik, W. U.: Adsorption of Zn(II), Cd(II) & Hg(II) complexes with p-dimethylaminoanil of methyl glyoxal on silica gel	768	ketones by peroxydiphosphate MATAR, MOHAMED S. see HATCH, LEWIS F MATHUR, H. B. see BADRINARAYANAN, S	424 583 702
of methyl glyoxal on silica gel MALLER, R. K. see NAGARAJAN, K MALLIK, K. L. see KUCHHAL, R. K	270 1322	see Srivastava, S. K 736, Mathur, K. B. see Chakravarty, P. K	464
Malonic acid: Adducts of Sb(V) chloride & fluoride with dialkyl esters of oxalic, succinic, malonic & adipic acids	982	See Sushma Rishi MATHUR, N. K. See BHAGWATI PRASAD MAULA, ANWARUL See PAHARI, M. B MAVANI, J. P.: Mixed complexes of Ni(II),	458 -290 1283
Characteristics of the oscillating reaction between malonic acid & cerium ion & bromate ion	687	Zn(II) & Cd(II) with ethylenediamine, mono- amino acids & polyphenols	214
Characteristics of chemical oscillators: • Part II — Mn ²⁺ catalysed oscillatory reaction between malonic acid & bromate ion	974	MAYA: Reaction of ethenyl phenyl ketone with some chlorocyclopentadienes MAYANNA, S. M.: Corrosion of copper single	648
Spectrophotometric studies on colourless complexes of Fe(III) with oxalic, citric & malonic acids & EDTA using 5-sulpho-		MEHROTRA, R. C. see BOHRA, RAKESH	1083 855 1193
salicylic acid as an auxiliary ligand Co(II), Ni(II) & Cu(II) complexes of substituted malonic acids	536658	see Sharma, C. K	629 218. 2, 851
MALVANKAR, R. B. see SHAH, V. G MANDAL, P. K.: Complexes of 1-phenyl-3-(2-pyridy)-2-thiourea with Co(II), Ni(II),	419	MEHROTRA, RAJ N.: Kinetics of oxidation of glycerol by vanadium(V) in sulphuric & perchloric acids	365
Cu(I), Zn(II), Pd(II), Cd(II), Pt(II), Bi(III) & Rh(III)	845	MEHROTRA, S. K.: Synthesis & insertion reactions of hexaalkylgermastannoxane &	1166
catalysed oxidation of lactic, malic & mandelic acids by peroxydisulphate	1177	related compounds мента, А. К. see Sandhu, S. S	834

•	PAGE		PAGE
Мента, О. Р.: Effect of pH on the kinetics of		7-Methoxy - 3 - (2 - carboxybenzyl)isocoumarins:	
adsorption of iodide & cobalt(II) ions on		Isocoumarins: Part XIII — Synthesis of	
metallic & glass surfaces	315	some 7-methoxy- & 6,7-dimethoxy-	
Electrical conductivity of binary mixtures	016	3-(2-carboxybenzyl)isocoumarins & related	573
of molten LiBr & KBr MEHTA, R. K. see OZHA, D. D	816 1321	substances 7-Methoxy-2,2-dimethylchromene: Essential oil	3/3
MEHTA, SUSHILA See OZHA, D. D	1321	of Ageratum conyzoides — Transformation of	
(±)-m-Mentha-1(6),8-diene: Studies in terpenes:		7-methoxy-2,2-demethylchromene to 2',4'-	
Part XXXVII — Investigations on Baeyer's		dimethoxy-2-dehydroisovalerophenone & its	
carvestrene &(\pm)-sylvestrene [(\pm)-m-mentha-	= - 4	dihydro derivative	1123
1(6),8-diene]	561	Methoxyhydnocarpin: Minor phenolic compo-	
Mercaptans: Titrimetric determination of mercaptans with ICN & BrCN	986	nents of seed hulls of <i>Hydnocarpus wightiana</i> : Constitution of methoxyhydnocarpin	993
2 - Mercapto - 3 - aryl(or alkyl) - 4(3H) - quinazo-	900	7-Methoxy-4-phenylquinoline-N-oxide: Synthe-	223
Iones: Some S-substituted 2-mercapto-3-aryl-		sis of heterocyclic compounds: Part XIV -	
(or alkyl)-4(3H)-quinazolones	223	Interaction of dimethylsulphoxonium methy-	
x-Mercaptopropionic acid: Molybdenum &		lide with quinoline-N-oxide & 7-methoxy-	1000
palladium complexes of α-mércaptopropionic	E20	4-phenylquinoline-N-oxide	1238
acid 2-Mercapto-s-triazoles: Heterocyclic systems	530	Methylacrylic acid: Reaction of dimethyl & dichloroanilines with acrylic & methyl-	
containing bridgehead nitrogen atom: Part		acrylic acids	351
XVIII — Reaction of 2-mercapto-s-triazoles		Methyl-ammonium fluoride: Fluoro complex	
with α-haloketones & with alkyl halides	485	salts of thorium(IV) with methyl- & ethyl-	
MERCHANT, J. R.: Formation of a byproduct		ammonium fluorides, pyridinium, substituted	
during the preparation of 7-hydroxy-4-methyl-	657	pyridinium, quinolinium & anilinium fluo-	
coumarin by Pechmann reaction Reaction of dimethyl & dichloroanilines	657	rides & ethylenediammonium & ρ-phenylene- diammonium fluorides	1302
with acrylic & methylacrylic acids	351	Methyl angolensate: Occurrence of methyl	1302
Synthesis of substituted acetophenones	002	angolensate & deoxyandirobin in Soymida	
employing the Nencki reaction	994	febrifuga A. Juss	207
see Joshi, Vidya	226	17a-Methyl-3,17a-diaza-A,D-bishomoandrost-4a-	4014
Mercuric chloride: Electrophilic catalysis in		eno[3,4-d]tetrazole	1211
solvolytic reactions: Part XI — Order with respect to catalyst in mercuric chloride-		1α-Methyl-1β,4αβ-dicarboxy-1,2,3,4,4a,9,10,10aβ-octahydrophenanthrene: Synthetic studies in	
catalysed solvolysis of alkyl chlorides	695	resin acid series: Part VII — Syntheses	
Mercury: A study of molecular exchange pheno-		of 1α-methyl-1β,4aβ-dicarboxy-1,2,3,4,4a,9,10,	
menon using radioactive mercury vapours	167	10aβ-octahydrophenanthrene & 1β,4aβ-di-	
Behaviour of vanadium(V) solutions in a	100	carboxy-1,2,3,4,4a,9,10,10aα-octahydrophen-	0.40
mercury reductor Mixed adsorption of <i>m</i> - & <i>p</i> -hydroxy-	180	anthrene / 1-Methyl-2,4-dithiobiuret: Interaction of ethyl	948
benzoic acids at mercury/solution inter-		chloroformate & 1-methyl-2,4-dithiobiuret:	
face	1294	Formation of a novel complex compound &	
Mercury(II): N-Benzoyl-o-tolylhydroxylamine		1.3.5-triazine derivatives	38
as a gravimetric reagent for mercury(II)	1206	Methylene blue: Adsorption of methylene blue,	
(2-Mercaptophenyl)salicylaldimine: Complexes		crystal violet & malachite green on bentonite,	1107
of Ni(II) with the tridentate ligand	194	vermiculite, kaolinite, asbestos & feldspar Extinction coefficient of methylene blue	1187
(2-mercaptophenyl)salicylaldimine Mesitylene: Bromination of mesitylene in acetic	197	monomer	897
acid — Effect of hydrogen bromide	1171	Methylene blue, rose bengale & eosin	
Mesuanic acid: Structure of mesuanic acid	884	sensitized photooxidation of diphenyl-	
Methanesulphonates: Chemistry of substituted		amine	422
sulphuric acids: Part VIII — Methanesulpho-	651	Quenching of fluorescence of methylene	313
nates of Sn(II), Sn(IV) & Zn(II)	651	blue by the dye dimer Methyl glyoxal: Adsorption of Zn(II), Cd(II) &	313
Part IX — Methanesulphonates of V(III), Cr(III), Co(II), Ni(II) & Cu(II)	825	Hg(II) complexes with p-dimethylaminoanil	-
Methanol: Electrical double layer capacity &		of methyl glyoxal on silica gel	768
adsorption phenomenon of methanol on lead		Methyl green: Kinetics of photoreduction of	
dioxide	1180	methyl green in the presence of hydrazine	
Energy of activation for the steady state		dihydrochloride or sulphate in aqueous	142
oxidation of methanol formaldehyde, glycol & glyoxal at platinized platinum		medium	174
electrodes	1077	the synthesis of oestrone and/or its isomer(s)	
Iodimetric determination of arsines & their		utilizing cis-8-methylhydrindan-1,4-dione	1119
complexes in methanol	1316	4 - Methyl - 2 - hydroxycyclohexylacetic acid:	
Methanol sorption isotherms of polystyrene	000	Friedel-Crafts condensation of the lactone of	
sulphonate (PSS) type of ion exchangers	808	4-methyl-2-hydroxycyclohexylacetic acid with	

	PAGE		PAGE
aromatic hydrocarbons: Part II — Condensation with p-xylene & tetralin Methyl 3-mercaptopropionate: Stabilities of	958	MOHARIR, Y. E.: Interaction of carbon disulphide with guanidines: Formation of 4-imino/substituted-imino-2,6-dithio-1,3,5-thia-	
uranyl complexes of methyl 3-mercapto- propionate 3'-O-Methylorobol: Synthesis & study of	1004	diazines	490
3'-O-methylorobol	911	molecular exchange phenomenon using radio- active mercury vapours	167
N-(1-Methyl-3-oxobutylidene)-o-arsanilic acid: Metal chelates with Schiff bases: Part I—		Molybdénum: Molybdenum & palladium complexes of α-mercaptopropionic acid	530
Co(II), Ni(II), Cu(II), Zn(II) & Cd(II) complexes with ethyl 3-[(o-arsonophenyl)imino]-butyrate & N-(1-methyl-3-oxobutylidene)-		Studies on polyanions & polycations by Glauber's salt cryoscopy: Part V—Polyanions of molybdenum & their	
o-arsanilic acid 2-Methyl-5-oxo-4,5,6,7-tetrahydrobenzo[b]furan:	830	equilibrium processes Momin, A. C.: Low temperature X-ray diffrac-	178
A convenient synthesis of 2 methyl-5-oxo-4,5,6,7-tetrahydrobenzo[b]furan	109	tion studies on U ₃ O ₈ Monoamino acids: Mixed complexes of Ni(II),	. 752
Methyl phenoxyacetate: Claisen/Stobbe reaction with methyl phenoxyacetate	891	Zn(II) & Cd(II) with ethylenediamine, mono- amino acids & polyphenols	214
2-Methyl-3-phenylquinoxalines & their styryl derivatives N-Methylpyrrolidone/phosphorus: Studies in the	54	Monomethylolphenol: Kinetics & mechanism of phenol-formaldehyde reaction: Part II — Acid-catalysed self-condensation reactions of	
Vilsmeier-Haack reaction: Part IX — Reaction of lactams with N-methylpyrrolidone/		mono- & di-methylolphenols Part IV — Reaction of mono- & di-	691
phosphorus oxychloride reagent 6-C-Methyltaxifolin: Constitution of deodarin &	940	methylolphenols with phenol at equi- molar concentrations	799
synthesis of its methyl ether & of 6-C-methyl-taxifolin	1126	Monothiodibenzoylmethane: Thermodynamics of interaction of Ni(II) ion with monothio-	• • • •
2-Methyl-6-p-tolylhept-2-en-6-ol: Transformation products of 2-methyl-6-p-tolylhept-2-en-	1120	dibenzoylmethare	736 1238
6-ol & comments on the assigned structure of curcumene ether	1202	Morpholinium chlorocadmates: Morpholinium chlorocadmates	525
Mg(II): Influence of sample size on non- isothermal kinetics of dehydration of hydrated oxalates of Mg(II), Ca(II) & Sr(II) & dehydro-		Morus rubra: Wood phenolics of Morus species: Part III – Phenolic constituents of Morus rubra bark	431
xylation of Mg(OH) ₂ & α-UO ₃ .H ₂ O Mg (II) nitrates: Theoretical e.m.f. for galvanic	1286	Mössbauer study of tris(ethylenediamine)-iron (III) sulphate	996
cells containing a single solid or molten Ag(I), Li(I), Na(I), K(I), Mg(II), Ca(II), Ba(II) &		Moulik, S. P.: Medium effects on proton- transfer complex between p-nitrophenol &	,,,
Tl(I) nitrates as electrolytes Mg(OH) ₂ : Influence of sample size on non-	748	ethylenediamine	92 712
isothermal kinetics of dehydration of hydrated oxalates of Mg(II), Ca(II) & Sr(II) & dehydro-		Mukerjee, S. K. see Bhanu, S see Dhingra, V. K	20 1118
xylation of Mg(OH) ₂ & α-UO ₃ .H ₂ O MISITI, D. see CACCHI, S	1286	see Kulshrestha, S. K see Mahey, Sulekha	10 29
MISRA, B. N. see GUPTA, S. K	1005	MUKERJEE, YATINDRA N.: Studies in cyclo-	47
MISRA, G. S. see BHAGAT, SUDESH MITAL, R. L. see JAIN, SURENDRA KUMAR	1018 780	additions: Part IV — Regio- & stereo-selectivity by Lewis acid catalysts in the condensa-	
MITRA, R. B. see Subba Rao, A Mn ²⁺ : Characteristics of chemical oscillators:	1028	tion of diphenylbutadienes & β-nitrostyrenes Mukherjee, R. N.: Spectroscopic & magnetic	331
Part II — Mn ²⁺ catalysed oscillatory reaction between malonic acid & bromate ion	974	studies on di(p-chlorophenyl)dithiophosphi- nato derivatives of cobalt & nickel subgroup	
Mn(II): Complexes of nitroalizarin with Zn(II),		metals	848
Mn(II), Co(II), Ni(II) & Y(III) Cu(II), Zn(II), Ni(II), Co(II) & Mn(II)	899	MUKHEDKAR, V. A. see GOGTE, V. N MUKHERJEE, J. see CHATTERJEA, J. N MUKHOPADHYAY, G. see GHOSH, N. N	1234 1259 636
chelates of N-phenyl-2-furohydroxamic acid	534	MULLICK, G. B. see DALI (née BERDE), H. M.	1230 1324
Stability constants of 5-chloro-2-hydroxy- butyrophenone complexes with Cu(II),	217	(±)-Munitagine: Total synthesis of the pavinane	
Ni(II), Co(II), Zn(II) & Mn(II) Mn(II) selenocyanate: Complexes of Mn(II)	217	alkaloid (±)-munitagine MUNJAL, RAMESH C. see DHAR, DURGA N	1249 1014
selenocyanate with nitrogen donor ligands MOHAMED S A See OSMAN A M	898 48	Munshi, K. L. see Dikshit, D. K Synthesis of 2,3-trans-3,4-cis- & 2,3-trans-	1144
Mohamed, S. A. see Osman, A. M Mohamed Metwally, S. A. see Osman, A. M.	775	3,4-trans-2,3,4-triphenyltetrahydrofurans	336
MOHANKUMAR, V. see DAVE, L. D	984	MURALEEDHARAN, N. V. see SARASWATHI, G. N.	561
MOHANTY, J. G.: A stable cationic nickel(IV)	883	MURALIKRISHNA, U.: Kinetic & analytical studies on the oxidation of thiocyanate by	

chromic acid in aqueous sulphuric acid		Naphthoxazole: Heterocyclic compounds: Part	
medium	880	V — Preparation of some new naphthoxazole	
MURARI, R. see BAHL, C. P	1038	dyes & highly stable diazonium salts	48
Mushran, S. P. see Ram Sanehi	311	Naphthoxazoles: Synthesis of some aryl	120
		naphthoxazoles from nitrosonaphthols α-Naphthylmathyl phenyl ether: Molecular	120
. 7		rearrangements: Part V — Pyrolysis of α -	
NACAPHUSHANAM T. Kinetics of photographic in	226	naphthylmethyl phenyl ether	1067
NAGABHUSHANAM, T.: Kinetics of photoreduction		NARAYANAN, C. R.: A novel cleavage of a	
of methyl green in the presence of hydrazine di-		steroid epoxide on Ritter reaction	992
hydrochloride or sulphate in aqueous medium	142	A simple method to convert a 3,5-cyclo-	001
Quenching of fluorescence of pyronine-G by	1005	steroid to a Δ^5 -steroid	991
halide ion in water & methanol	1205	Simple methods to identify a methyl group on a carbon bearing a hydroxyl	
NAGANA GOUD, A. see NAGARAJAN, K. 23 NAGARAJAN, K.: Condensed heterotricycles:	00, 470	group	677
Amino & aminoalkyldibenz $[b,f][1,4]$ oxa-		Nardostachys jatamansi: Seychellene & seyche-	
z epin-11(10 H)-ones	236	lane from Nardostachys jatamansi	1221
Beckmann rearrangement of xanthone &			986
thioxanthone oximes as a route to		NASEER AHMAD SEE KHAN, MOHD MAHFOOZ	111
dibenz[b,f][1,4]oxazepines & thiazepines	247	see RAHMAN, S. M. F	899
Dibenz[b,f][1,4]oxazepin-11-(10H)-thiones,		NATARAJAN, S.: Metal hydride reduction of some 1-benzylisoquinoline methiodides	355
11-substituted dibenz[b,f][1,4]oxazepines	258	Synthesis of dl-caryachine	550
& dibenz[b,f][1,4]thiazepine analogues Potential metabolites of dibenz[b,f][1,4]-	430	see Stermitz, Frank R	1249
oxazepine artidepressant, Sintamil	270	NATESAN, R.: Kinetics & mechanism of phenol-	
10,11-Ring annealed dibenz $[b,f][1,4]$ oxa-	_, _	formaldehyde reaction: Part II - Acid-	
zepines	263	catalysed self-condensation reactions of	
Synthesis of dibenz $[b,f][1,4]$ oxazepines,		mono- & dimethylolphenols	691
dibenz[b,f][1,4]thiazepines & dibenz-		Part III — Acid-catalysed condensation	
[b,e][1,4]diazepines by cyclization of		reactions of 2,4- & 2,6-dimethylolphenols	796
2-halo-2'-hydroxy(mercapto/amino)benz-	007	with excess phenol Part IV — Reaction of mono- & dimethylol-	790
anilides \dots Synthesis of pyridine-annealed dibenz[b,f]-	227	phenols with phenol at equimolar	
	252	concentrations	799
[1,4]oxazepines NAGARKAR, P. M. see Gore, T. S	946	Part V — Zinc acetate-catalysed self-	
NAGASAMPAGI, B. A. see NARAYANAN, C. R.	991	condensation & condensation with phenol	
NAIDU, M. S. R.: Heterocyclic systems contain-		of 2,6- & 2,4-dimethylolphenols	802
ing phosphorus: Part I - Syntheses of		NAYAK, P. L. see Singh, B. C	421
2-(4-chloro-3-methylphenoxy)-2,3-dihydro-		NAZAR SINGH: Structure of an ester from the	1325
1 <i>H</i> -benzo-1,3,2-diazaphosphole-2-oxides	349	seeds of Asphodelus tenuifolius Cav	1219
NAIR, D. G. see DEVANI, M. B	905	see Ajit Singh see Kewal Krishan	222
NAIR, CHITRA: Spectral & magnetic studies on Ni(II), Cu(II), Rh(III), Pd(II) & Pt(II)		Nd(III): Complexes of ditertiaryphosphine/	
complexes of thiosalicylic acid	769	arsine oxides with metal ions: Part VII -	
NAIR, P. M.: Proton chemical shift in some	, , ,	Complexes of La(III), Nd(III) & Sm(III)	
condensed thiophenes	589	nitrates with oxides of ethylene-1,2-bis-di-	
see Bhagwat, V. M	502	phenylphosphine/arsine & butylene-1,4-bis-	1102
NAMBIAR, O. G. B. see Atchayya, M	633	diphenylphosphine/arsine La(III), Ce(III), Pr(III), Nd(III) & Sm(III)	1104
NAMBIAR, P. R. see JAIN, S. R	1087	chelates of N-(2-hydroxy-1-naphthali-	
NAMBOORI, KRISHNAN see JOSHI, VIDYA NAMBUDIRY, M. E. N.: A short synthesis of	226	dene)anthranilic acid	1321
5,7-dimethylphthalide	775	NEELAKANTAN, S. see JAYALAKSHMI, V	441
Studies in terpenoids: Part XXXV —	,,,	Nencki reaction: Synthesis of substituted aceto-	
Dehydrogenation of a mixture of α- &		phenones employing the Nencki reaction	994
β-himachalenes: Isolation & characteriza-		Nepetin: Synthesis of nepetin	914
tion of bisdehydro-ar-himachalene (6,7-		Neutron activation analysis: Manganese dioxide	
benzo - 1,5,5,10 - tetramethylcyclohepta-	000	as sorber in the determination of Ce, Ru, Zr & Cs fission nuclides from seawater by	
1,3,6-triene)		neutron activation, analysis	20
Na(I) nitrate: Theoretical e.m.f. for galvanic		Ni(II): Absorption spectra of some nickel(II)	-
cells containing a single solid or molten Ag(1),		complexes	21:
Li(I), Na(I), K(I), Mg(II), Ca(II), Ba(II) & Tl(I) nitrates as electrolytes		Chemistry of substituted sulphuric acids:	Ad A.
Nanje Gowda, N. M. see Reddy, G. K. N.	185	Part IX — Methanesulphonates of V(III)	
Naphthalene: Eutectic solidification & liquid		Cr(III), Co(II), Ni(II) & Cu(II)	82.
eutectic: Part I - Binary mixtures of		Co(II), Ni(II) & Cu(II) complexes of	
naphthalene & diphenyl	727	substituted malonic acids	65

1355

Co(II), Ni(II), Cu(II), Zn(II), Cd(II) &		Nickel(IV): A stable cationic nickel(IV)	
Pd(II) complexes of 1-carbamyl-3-4,5-tri-	440**	complex	883
methylpyrazole	1107	Nickel(II) dithiocarbamates: Reaction of nickel(II) dithiocarbamates with nitric oxide	836
ligand (2-mercaptophenyl)salicylaldimine	194	Ni(II) ion: Thermodynamics of interaction of	77.7
Complexes of nitroalizarin with Zn(II), Mn(II), Co(II), Ni(II) & Y(III)	899	Ni(II) ion with monothiodibenzoylmethane Ni(II) thiocyanate: Preparation & spectroscopic	736
Complexes of 1-phenyl-3-(2-pyridyl)-		studies on 4,4'-bipyridine complexes with Co(II),	4.04
2-thiourea with Co(II), Ni(II), Cu(I), Zn(II), Pd(II), Cd(II), Pt(II), Bi(III) &		Ni(II), Zn(II), Cd(II) & Hg(II) thiocyanates Nicotinamide: Polarography of nicotinamide	107
Rh(III) ·	845	complexes of Cd(II) in water-formamide	
Cu(II), Ni(II) & Co(II) chelates of Schiff		mixtures	765
bases, 2,5-dihydroxyacetophenone- ethylenediamine & 2-hydroxy-5-methyl-		NIGAM, H. L. see NAIR, CHITRA see SRIVASTAVA, S. K	769 530
acetophenone isopropylenediamine	771	Niobium pentaethoxide: Organic compounds	
Cu(II), Ni(II), & Fe(III) chelates of		of Vth group elements: Part II — Reaction	
2-hydroxy-5-methyl-3-nitroacetophenone ethylenediamine & Fe(III) chelate of		of niobium pentaethoxide with oximes & diethylhydroxylamine	855
corresponding oxime	764	Nitric oxide: Reaction of nickel(II) dithio-	`
Cu(II), Zn(II), Ni(II), Co(II) & Mn(II)		carbamates with nitric oxide	836
chelates of N-phenyl-2-furohydroxamic acid	534	Nitroalizarin: Complexes of nitroalizarin with Zn(II), Mn(II), Co(II), Ni(II) & Y(III)	899
Metal chelates with Schiff bases: Part I —		Nitro aromatics: On the intermediacy of anion	
Co(II), Ni(II), Cu(II), Zn(II) & Cd(II) complexes with ethyl 3-[(o-arsonophenyl)-	•	radical in the reduction of nitro aromatics Nitrogen: Complexes of Mn(II) selenocyanate	41(
imino]-butyrate & N(1-methyl-3-oxo-		with nitrogen donor ligands	898
butylidene)-o-arsanilic acid	830	Synthesis of heterocyclic compounds:	
Mixed complexes of Ni(II), Zn(II) & Cd(II) with ethylenediamine, monoamino acids		Part IX — Synthesis of heterocyclic compounds containing sulphur & nitrogen	1147
& polyphenols	214	Thermo-osmosis of quaternary gaseous mix-	1117
Ni(II) & Co(II) chelates of 2,3-dioxobutyr-	F 2 7	tures of oxygen, nitrogen, ethylene & car-	1077
nilide-2-oxime	537	bon dioxide through unglazed porcelain Nitromethane: Thermodynamics of nitrome-	1273
bases	984	thane solutions: Part I — Excess volumes of	
Nickel(II)-diethanolamine complexes	533	mixing of binary solutions of nitromethane with benzene, dioxane & chloroform	620
Pottasium γ-thiobenzopyrone-α-thiolate as an analytical reagent for Ni(II)	1006	Nitrones: Reaction of sodium borohydride with	020
Spectral & magnetic studies on salicyl-		open-chain conjugated azomethine N-oxides	000
aldehyde hydrazone complexes of Ni(II) & Pd(II)	532	(nitrones)	222
Spectral & magnetic studies on Ni(II),	002	transfer complex between p-nitrophenol &	
Cu(II), Rh(III), Pd(II) & Pt(II) com-	760	ethylenediamine	92
plexes of thiosalicylic acid Stability constants of 5-chloro-2-hydroxy-	769	1-Nitroso-2-naphthol: Chelate complexes of 1-nitroso-2-naphthol	770
butyrophenone complexes with Cu(II),		Nitrosonaphthols: Synthesis of some aryl	4.00
Ni(II), Co(II), Zn(II) & Mn(II) Studies in mixed ligand complexes: Part	217	naphthoxazoles from nitrosonaphthols β-Nitrostyrenes: Studies in cycloadditions:	120
VIII — Formation constants of the com-		Part IV — Regio- & stereo-selectivity by Lewis	
plexes of Cu(II), Ni(II), Zn(II) & Cd(II)		acid catalysts in the condensation of diphenyl-	221
with dipyridyl/o-phenanthroline as primary ligands & ethylene & propylene-		butadienes & β-nitrostyrenes Nitrosyl chloride: Stereochemistry of the	331
diamines as secondary ligands	402	nitrosyl chloride adduct from 1-phenyl-	
Thermal decomposition of the complexes of		cyclohexene	323 1016
dithiocarbamate & substituted thiourea with Ni(II), Zn(II), Cd(II), Cr(III) &		NITYANAND SINGH see SINGH, PREM NARAYAN NOSSEIR, M. H.: Action of Grignard reagents &	1010
Co(III)	838	aryllithiums on 6-hydroxy-4-methoxy- & 6-	
Thermodynamics of linked metal chelate rings: Part III — Enthalpies & entropies		hydroxy-4,7-dimethoxy-5-arylacryloyl-benzo- [b]furans	668
of reaction of Cu(II) & Ni(II) ions with		[0] Turans	- 000
N,N'-bis-(3-aminopropyl)-1,2-ethane-	1200		
Nickel chelates of oxime-hydrazones	1289 216	(±)-Obtusafuran methyl ether: A biogenetic-	
Spectroscopic & magnetic studies on di(p-		type synthesis of (\pm) -obtusafuran methyl	
chlorophenyl)dithiophosphinato deri-		ether Ocimum basilicum: Polysaccharides from the	20
vatives of cobalt & nickel subgroup	848	seed mucilage of Ocimum basilicum Linn.	1164

		AT THE CONTRACT OF	
Oestrone: A study on the synthesis of oestrone		see Natarajan, S 35 see Stermitz, Frank R	4040
and/or its isomer(s) utilizing cis-8-methyl- hydrindan-1,4-dione	1119	see Suguna, H	1141
OMAR, NABIL M.: Potential psychotropic agents:	2227	PAKNIKAR, S. K. see DHEKNE, VIJAY V	1016
6,7-Benzo-1,2,4,5-tetrahydro-1-5-diazepines	498	see Kirtany, J. K	1202
Organotin oximates: Organometallic oxime &		PAKRASHI S. C. see Achari, B	1218
allied derivatives: Part III — Preparation,		PAL, ANJANA see Achari, B	1218
properties & infrared spectroscopic studies of		PALASKAR, N. G.: Stability constants of phthalic	
some organotin oximates	851	acid & substituted phthalic acids	197
OSMAN, A. M.: Chemical examination of local		PALIT, SANTI R. see GHOSH, ASHOK	382
plants: Part X — Comparative studies bet-		Palit's equation: Range of validity of Palit's	200
ween the constituents of some parts of	1019	equation Palladium: Determination of palladium by com-	209
Hisbiscus esculentus Linn. (Egyptian okra) Heterocyclic compounds: Part V ₊₋ Pre-	1019	pleyometric titration	1007
paration of some new naphthoxazole		PALTA, NEELAM see PAUL, R. C	825
dyes & highly stable diazonium		PALTA, NEELAM see PAUL, R. C PANDA, G. see BEHURA, B PANDEYA, K. B. see RAY, HEM LATA	781
salts	48	PANDEYA, K. B. see RAY, HEM LATA	532
Part VI — Fragmentation pattern of		see Srivastava, S. K	530
certain benzobisoxazoles uner electron		PANDIT, A. L. see Hosangadi, B. D	920
impact	775	PANDIT, R. S.: Synthetic studies in indole	
Synthesis of some aryl naphthoxazoles	4.00	series — Synthesis of potential pharmaco-	
from nitrosonaphthols	120	logical agents	943
Oxalate: Influence of oxalate & tartrate on		PANDIT, U. S.: Studies on aluminium soaps &	06
titanium-gallic acid/protocatechuic acid/		their gels PANI, R.: Cobalt(II) complexes of N-salicyl-	96
sulphosalicylic acid systems in weakly acidic	642	ideneglycine	215
medium	0.12	PANPALIA, S. S.: Oxidation kinetics of thio-	213
fluoride with dialkyl esters of oxalic, succinic,		salicylic acid by ferricyanide ion in acid	
malonic & adipic acids	982	medium	1166
Nature of species extracted from titanium		PANSARE, V. S. see SHAH, V. G	419
(IV)-gallic acid — Oxalic acid system by		PARAMESWARAN, GEETHA: Zirconium tetrachlo-	
triisooctylamine	865	ride as a catalyst in the Friedel-Crafts re-	
Spectrophotometric studies on colourless		action	1015
complexes of Fe(III) with oxalic, citric		PARAMESWARAN, V.: Applications of NMR	
& malonic acids & EDTA using 5-sulpho-	E26	spectroscopy & mass spectrometry to some	
salicylic acid as an auxiliary ligand	536	problems concerning synthetic dyes: Part IX	
Oxides: Correlation of zero points of charge of		Action of sodium borohydride on some	785
solid oxides & hydroxides with partial charge of surface oxygen atom	170	cationic dyes PARDESHI, N. P. see BANDOPADHYAY, M.	
2-Oxophenazines: Studies in anticancer agents:	2,0	PARIKH, P. G.: Studies in mixed ligand com-	45, 475
Syntheses of substituted indazolequinones,		plexes: Part VIII — Formation constants of	
2-oxophenazines & azaphenazines	129	the complexes of Cu(II), Ni(II), Zn(II) &	
Oxygen: Correlation of zero points of charge of		Cd(II) with dipyridyl/o-phenanthroline as	
solid oxides & hydroxides with partial charge		primary ligands & ethylene & propylene-	
of surface oxygen atom	170	diamines as secondary ligands	402
Thermo-osmosis of quaternary gaseous		PARKASH, B. see KRISHNAMURTY, H. G	554
mixtures of oxygen, nitrogen, ethylene		PARMAR, M. M.: Spectrophotometric studies on	
& carbon dioxide through unglazed por-	1273	colourless complexes of Fe(III) with oxalic,	
celain Oxypentachloromolybdates(V): Studies on	12/5	citric & malonic acids & EDTA using 5-sulphosalicylic acid as an auxiliary ligand	536
oxypentachloromolybdates(V) studies on	396	PARTAP SINGH see LAL, B	906
OZHA, D. D.: La(III), Ce(III), Pr(III), Nd(III)		PARTHASARATHY, M. R.: Photo-oxidative	700
& Sm(III) chelates of N-(2-hydroxy-1-naph-		cleavage of epoxides	1009
thalidene)anthranilic acid	1321	7-O-Rutinosides of biochanin-A & formono-	
,		netin: Two new rhamnoglucosides of the	
		bark of Dalbergia paniculata	518
D		see Bahl, C. P	1038
PADMA, D. K.: Preparation of sulphur mono-	417	see Krishnamurty, H. G	520
iodide & thionyl iodide PAHARI, M. B.: Semi-empirical calculation of	717	PARTHASARATHY, S.: Studies on conformation of amino acids: Quantum chemical calculations	
activation energies: Termolecular reactions	1283	on alanine & aminobutyric acid	805
PAHIL, SARVINDER SINGH: Iodimetric deter-	1200	Pashanone: Syntheses of pashanone & its	003
mination of arsines & their complexes in		isomers & their derivatives	557
methanol	1316	Patchouli oil hydrocarbon-E: Identity of pat-	
PAHUP SINGH see JOSHI, KRISHNA C	903	chouli oil hydrocarbon-E with cyclosey-	
PAI, B. R. see GOVINDACHARI, T. R	866	chellene	1016
			4000
			1357

PATEL, B. B.: Stability constants of 5-chloro-		Spectral & magnetic studies on Ni(II),	
2-hydroxybutyrophenone complexes with		Cu(II), Rh(III), Pd(II) & Pt(II) com-	
Cu(II), Ni(II), Co(II), Zn(II) & Mn(II)	217	plexes of thiosalicylic acid	769
PATEL, C. C. see DURGAPRASAD, G	840	Perchloric acid: Kinetics of oxidation of glycerol	265
PATEL, R. P. see PARMAR, M. M see PATEL, B. B	536 217	by vanadium(V) in sulphuric & perchloric acids Peroxydisulphate: Kinetics & mechanism of	365
PATEL, J. R. see MERCHANT, J. R	657	Ag ⁺ -catalysed oxidation of lactic, malic &	
PATHAK, U. S. see DEVANI, M. B	905	mandelic acids by peroxydisulphate	1177
PATHARE, P. P.: Synthesis of 6,6-dimethyl-		Kinetics of oxidation of aromatic alcohols	
pyranoisoflavones & 4-hydroxy-3-phenyl-6",		by peroxydisulphate: Part II — Oxi-	
6"-dimethylpyranocoumarins (isoflavonols)	793	dation of α-phenylethanol	684
PATIL, J. N.: Nitration of the beryllium chelates	100	Kinetics of oxidation of benzaldehyde by	70
of N-substituted acetoacetamides	189	peroxydisulphate	72
PATIL, S. V.: Chelate complexes of 1-nitroso- 2-naphthol	770	Kinetics of oxidation of ketones by peroxy-	424
PATWARDHAN, B. H.: Claisen/Stobbe reaction	770	diphosphate Peroxydisulphate oxidations: Part VI—	,141
with methyl phenoxyacetate	891	Identification of oxidation products of	
PATWARDHAN, S. S.: Benzodipyrans: Part IV —		aniline & substituted anilines	656
Synthesis of benzodipyrans akin to dihydro-		Phadnis, A. B.: Influence of sample size on non-	
robustic acid PAUL, B. K. see DAS, P. C	661	isothermal kinetics of dehydration of hydrated	
PAUL, B. K. see DAS, P. C	1139	oxalates of Mg(II), Ca(II) & Sr(II) & dehy-	1000
PAUL, R. C.: Chemistry of selenium trioxide: Part I — Preparation of some chloro-	_	droxylation of Mg(OH) ₂ & α-UO ₃ ·H ₂ O Phenanthrenequinone: Action of diazoalkanes	1286
selenates some choro-	320	on phenanthrenequinone & chrysene-	
Part IV — Complexes of selenium trioxide	020	quinone	1060
with mono- & dicarboxylic acids	757	Phenanthroline: Mixed ligand complexes of	
Chemistry of substituted sulphuric acids:		Cu(II) containing bipyridyl or phenanthroline	
Part VIII — Methanesulphonates of		as one of the ligands	861
$\operatorname{Sn}(\operatorname{II})$, $\operatorname{Sn}(\operatorname{IV})$ & $\operatorname{Zn}(\operatorname{II})$	651	o-Phenanthroline: Studies in mixed ligand	
Part IX — Methanesulphonates of V(III),	925	complexes: Part VIII — Formation constants	
Cr(III), Co(II), Ni(II) & Cu(II) Diethoxyphosphato complexes of vana-	825	of the complexes of Cu(II), Ni(II), Zn(II) & Cd(II) with dipyridyl/o-phenanthroline as	
dium(III), chromium(III), manga-		primary ligands & ethylene & propylene-	
nese(II) & copper(II)	827	diamines as secondary ligands	402
Preparation & characterization of thio-		Phenazine: Solid complex of phenazine &	
dithiazyl chloride	418	tetracyanoquinodimethane	1313
Reaction of thiotrithiazyl chloride with	Am < 4	Phenethanolamines: \(\beta \)-Adrenoceptor blocking	
anhydrous cobalt chloride	761	agents: Part I — Phenoxypropanolamines &	
Titrimetric determination of mercaptans with ICN & BrCN	986	phenethanolamines carrying groups capable of strong bonding	1021
with ICN & BrCN PAWAN JIT see KESSAR, S. V	113	Phenol: Kinetics & mechanism of phenol-	, 1021
Pb ²⁺ : Polarographic studies on the complexes		formaldehyde reaction: Part II — Acid-	
of Pb ²⁺ & Cd ²⁺ with valerate & isovalerate		catalysed self-condensation reactions of mono-	
ions	655	& di-methylolphenols	691
Pb(II): Complexes of 2-hydroxy-1-mercapto-		Part III — Acid-catalysed condensation	
pyrimidine with Zn(II), Cd(II), Hg(II), Tl(I),	1096	reactions of 2,4- & 2,6-dimethylolphenols	706
Pb(II), Ag(I) & Au(III) Studies on stepwise complex formation of	1090	with excess phenol Part IV — Reaction of mono- & di-	796
Pb(II) with oxalate by amperometric		methylolphenols with phenol at equi-	
technique	538	molar concentrations	799
Pd(II): Acenaphthenequinonemonoxime as a		Part V — Zinc acetate-catalysed self-	
new selective reagent for the determination		condensation & condensation with phenol	
of Pd(II)	110	of 2,6- & 2,4-dimethylolphenols	802
Co(II), Ni(II), Cu(II), Zn(II), Cd(II) &		Phenol-formaldehyde reaction: Kinetics &	
Pd(II) complexes of 1-carbamyl-3,4,5-trimethylpyrazole	1107	mechanism of phenol-formaldehyde reaction: Part II — Acid-catalysed self-condensation	
trimethylpyrazole	110,	reactions of mono- & di-methylolphenols	691
Rh(III) & Rh(I) with 3-(4-pyridyl)tria-		Part III — Acid-catalysed condensation re-	0,1
zoline-5-thione	631	actions of 2,4- & 2,6-dimethylolphenols	
Complexes of 1-phenyl-3-(2-pyridyl)-2-		with excess phenol	796
thiourea with Co(II), Ni(II), Cu(I), Zn(II),		Part IV — Reaction of mono- & di-	
Pd(II), Cd(II), Pt(II), Bi(III) &	015	methylolphenols with phenol at equi-	700
Rh(III)	845	molar concentrations Part V—Zinc acetate-catalysed self-	799
Spectral & magnetic studies on salicyl- aldehyde hydrazone complexes of Ni(II)		condensation & condensation with phenol	
8. Dd/II)	532	of 2.6- & 2.4-dimethylolohenole	802

	PAGE		PAGE
Phenols: Relative acidities of phenols in aprotic solvents	382	Phenyltin(IV) chloride: Adducts of diphenyl sulphoxide with Sn(II) chloride & bromide & phenyltin(IV) & ethyltin(IV) chlorides	766
tuted 3H-phenothiazin-3-ones Phenoxypropanolamines: β-Adrenoceptor blocking agents: Part I — Phenoxypropanolamines & phenethanolamines carrying groups capable	780	Phloroacetophenone: Benzylation of phloro- acetophenone & resacetophenone acetates Phosphine oxides: Complexes of ditertiary- phosphine/arsine oxides with metal ions:	26
of strong bonding	1021 767	Part VII — Complexes of La(III), Nd(III) & Sm(III) nitrates with oxides of ethylene-1,2-bis-diphenylphosphine/arsine & butylene-1,4-bis-diphenylphosphine/arsine	1102
Phenylcamphoric acid: Studies in terpenoids: Part XXVII — Reactions of phenylcamphoric acid	932	Phosphonium perchlorates: Thermal studies on some substituted phosphonium perchlorates Phosphorus: Complexes of metal ions with	1087
4-Phenylcoumarins: Claisen migration in substituted 4-phenylcoumarins 3-Phenyl-cycl[3.2.2]azines: NMR spectra of	292	phosphorus or arsenic containing ligands: Part XVI — Complexes of ditertiary-phosphines/arsines with ruthenium(II) dicarbonyl	
1,2,4-substituted 3-phenyl-cycl[3.2.2]azines 1-Phenylcyclohexene: Stereochemistry of the nitrosyl chloride adducts from 1-phenylcyclo- hexene	323	dihalides	834
p-Phenylenediamine: Conductometric study of charge transfer complex of p-phenylenediamine with picric acid	1308	1,3,2-diazaphosphole-2-oxides Simultaneous microdetermination of sulphur & phosphorus in organic	349
o-Phenylenediammonium fluorides: Fluoro complex salts of thorium(IV) with methyl- & ethyl-ammonium fluorides, pyridinium,		compounds Phosphorus oxychloride: Studies in the Vilsmeier-Haack reaction: Part IX — Reaction	419
substituted pyridinium, quinolinium & anilinium fluorides & ethylenediammonium & o-phenylenediammonium fluorides \alpha-Phenylethanol: Kinetics of oxidation of	1302	of lactams with N-methylpyrrolidone/phosphorus oxychloride reagent Phthalic acid: Stability constants of phthalic acid & substituted phthalic acids	940 197
aromatic alcohols by peroxydisulphate: Part II — Oxidation of α-phenylethanol N-Phenyl-2-furohydroxamic acid: Cu(II),	684	Physalaemin: Peptides related to physalaemin α-Picoline: Kinetics of oxidation of α-picoline	1203
Zn(II), Ni(II), Co(II) & Mn(II) chelates of N-phenyl-2-furohydroxamic acid Phenylhydrazine: Reactions of 2-p-anisyl-	534	by Ce(IV) in acetic acid Y-Picoline: Kinetics of reaction between iodine & Y-picoline	421 70
3(4H), 1-benzoxazin-4-one with ammonia, primary amines, hydrazine, phenylhydrazine & Grignard reagents Phenylhydroxylamine: Spectrophotometric	1212	Picric acid: Conductometric study of charge transfer complex of p-phenylenediamine with picric acid Picryl-N-aminocarbazyl: Titrimetric determina-	1308
studies on mixed chelate formation—Vanadium(V) with tridentate triazene-N-oxides & bidentate phenylhydroxylamine deriva-	1110	tion of picryl-N-aminocarbazyl (PAC) PILLAI, RAJASEKHARAN V. N. see JOSHUA, C. P. PODDAR, S. N.: Co(II), Ni(II), Cu(II), Zn(II), Cd(II) & Pd(II) complexes of 1-carbamyl-	1005 60
Phenylmagnesium bromide: Studies on 1,2,4-triazine derivatives: Part V — Behaviour of some derivatives of 1,2,4-triazine towards		3-4,5-trimethylpyrazole Complexes of silver(I) with pyrazole, a potentiometric study	1107 754
phenylmagnesium bromide, methylating agents & Mannich reaction 1-Phenyl-3-(2-pyridyl)-2-thiourea: Complexes	301	Complexes of tin(IV) with some tetra- dentate Schiff bases derived from sali- cylaldehyde & diamines	1105
of 1-phenyl-3-(2-pyridyl)-2-thiourea with Co(II), Ni(II), Cu(I), Zn(II), Pd(II), Cd(II), Pt(II), Bi(III) & Rh(III) cis-1-Phenyl-1,2,3,4-tetrahydro-9(H)pyrido[3,4-	845	Pol, V. A.: Constitution of minor products obtained during synthesis of 2,3,7,8-tetramethoxy- & 2,3,8,9-tetramethoxydibenzothiophenes & their dioxides	64
blindole-3-carboxylic acids: Epimerization of cis- & trans-1-phenyl-1,2,3,4-tetrahydro-9(H)pyrido[3,4-blindole-3-carboxylic acids by	892	Polyanions: Studies on polyanions & polycations by Glauber's salt cryoscopy: Part V—Polyanions of molybdenum & their equili-	
treatment with acids & bases trans-1-Phenyl-1,2,3,4-tetrahydro-9(H) pyrido[3, 4-b]indole-3-carboxylic acids: Epimerization of cis- & trans-1-phenyl-1,2,3,4-tetrahydro-	094	brium processes Polycations: Studies on polyanions & polycations by Glauber's salt cryoscopy: Part V — Polyanions of molybdenum & their equi-	178
9(H)pyrido[3,4-b]indole-3-carboxylic acids by treatment with acids & bases Phenyl thiuret: Structure & alkylation of	892	librium processes Polyenes: Hole-particle description of the intensity of electronic spectra of long chain	173
phenyl thiuret	134	polyenes	88:

1359

Polymorphs: Infrared absorption spectra of polymorphs of potassium dichromate Polyphenols: Mixed complexes of Ni(II), Zn(II)	176	primary ligands & ethylene- & propylene- diamines as secondary ligands Prostaglandin synthon: A simple synthesis of	402.
& Cd(II) with ethylenediamine, monoamino acids & polyphenols Polystyrene: Electrical conductivity of polystyrene-chloranil & polystyrene-tetrachloro-	214	2-(ω-carboxyhexyl)cyclopentanone, a prosta- glandin synthon Protic solvents: Structural & solvent effects	893
phthalic anhydride systems Polystyrene sulphonate: Methanol sorption isotherms of polystyrene sulphonate (PSS) type	698	on the alkaline hydrolysis of alkyl acetates in protic & dipolar aprotic solvents Protocatechuic acid: Influence of oxalate & tartrate on titanium-gallic acid/protocatechuic	597
of ion exchangers Polyvinylpyridine: Electrical conductivity of	808	acid/sulphosalicylic acid systems in weakly acidic medium	642
polyvinylpyridine-chloranil system Pongamia glabra: Pongaflavone, a new chromenochromone & an analogue of karanjin	972	Psoralea corylifolia: Components of different parts of seeds (fruits) of Psoralea corylifolia Isolation & constitution of corylin: A new	15
isolated from <i>Pongamia pinnata</i> (Linn.) Pierre (syn. <i>P. glabra</i>) <i>Pongamia pinnata</i> (Linn.) Pierre: Pongaflavone,	8	isoflavone from the fruits of <i>Psoralea</i> corylifolia Pt(II): Complexes of Pd(II), Pt(II), Pt(IV),	659
a new chromenochromone & an analogue of karanjin isolated from <i>Pongamia pinnata</i> (Linn.) Pierre (syn. <i>P. glabra</i>)	8	Rh(III) & Rh(I) with 3-(4-pyridyl)triazoline- 5-thione	631
Potassium dichromate: Infrared absorption spectra of polymorphs of potassium dichromate	176	urea with Co(II), Ni(II), Cu(I), Zn(II), Pd(II), Cd(II), Pt(II), Bi(III) & Rh(III) Spectral & magnetic studies on Ni(II),	845
Titrimetric determination of arsenic(III) with potassium dichromate using diphenylamine & diphenylbenzidine as	202	Cu(II), Rh(III), Pd(II) & Pt(II) complexes of thiosalicylic acid Pt(IV): Complexes of Pd(II), Pt(II), Pt(IV),	769
redox indicators Potassium γ -thiobenzopyrone- α -thiolate: Analytical application of potassium γ -thiobenzo-	203	Rh(III) & Rh(I) with 3-(4-pyridyl)triazoline- 5-thione Thiotropolone as a colorimetric extractive	631
pyrone-α-thiolate Potassium γ-thiobenzopyrone-α-thiolate as an analytical reagent for Ni(II)	219 1006	reagent for Pt(IV) 287, 4 PUJARI, H. K. see DHAKA, K. S 287, 4 cis-Pulegol: Epoxidation of cis-pulegol & 6-ben-	
Pr ³⁺ : Ionic conductivity & transport parameters in KCl crystals doped with Li ⁺ , Pr ³⁺ & SO ₄ ²⁻	607	zylidene-2-methylcyclohexanol Puranik, G. S. see Badami, B. V Puri, B. R.: Specific surface area determination	671
Pr(III): La(III), Ce(III), Pr(III), Nd(III) & Sm(III) chelates of N-(2-hydroxy-1-naphthal-idene)anthranilic acid	1321	of microcrystalline carbons by adsorption from solutions of non-electrolytes see Mahajan, O. P	161 1183
Prakash, B.: Ionic conductivity & transport parameters in KCl crystals doped with Li ⁺ , Pr ³⁺ & SO ₂ ⁴⁻ see Krishnamurty, H. G	607	PUROHIT, MURALIDHAR G. see HIREMATH, SHIVA- YOGI P PURUSHOTHAMAN, K. K.: Occurrence of methyl	493
PRAKASH, S. R. See NARAYANAN, C. R PRASAD, B. G. S. See DAVE, L. D	520 991 1002	angolensate & deoxyandirobin in Soymida febrifuga A. Juss Putranjiva roxburghii Wall.: Structures of putra-	207
Prasad, K. see Chatterjea, J. N Prasad, K. B.: Synthesis of indole alkaloids & related compounds: Part II — Synthesis of	1256	nosides from the seed-coats of <i>Putranjiva</i> roxburghii Wall Putranosides: Structures of putranosides from	447
some 12H-benz[f]indolo[2,3-a]pyridocolinium salts PRASAD, G. VASUDEVA: Solvent extraction of	344	the seed-coats of <i>Putranjiva roxburghii</i> Wall. Pyrano[2,3-d]pyrimidines: Synthesis of heterocycles: Part II—Pyrano[2,3-d]pyrimidines	1028
anionic complexes of Be into ion-association systems PRASAD, R. see CHATTERJEA, J. N	1318 1256	Pyrazole: Complexes of silver(I) with pyrazole, a potentiometric study Pyrazolines: Condensation products of de-	754
PREMILA, M. S. see STERMITZ, FRANK R 7-O-Prenylchrysin: Claisen migration of 7-O-prenylchrysin	1249 1131	hydracetic acid with aromatic aldehydes & pyrazolines derived from them Pyridine: Condensed heterotricycles: Synthesis	956
n-Propyldiphenylarsine: Hydride & carbonyl complexes of rhodium & iridium with n-propyldiphenylarsine	185	of pyridine-annealed dibenz[b,f][1,4]oxaze-pines Pyridines: Infrared spectral studies on the	252.
Propylene: Oxidation of propylene on a manganese molybdate catalyst Propylenediamines: Studies in mixed ligand	205	complexes of tin(IV) halides with 3-substituted pyridines Pyridinium fluorides: Fluoro complex salts of	- 192
complexes: Part VIII — Formation constants of the complexes of Cu(II), Ni(II), Zn(II) & Cd(II) with dipyridyl/o-phenanthroline as		thorium(IV) with methyl- & ethyl-ammonium fluorides, pyridinium, substituted pyridinium, quinolinium & anilinium fluorides & ethylene-	

	11101		FAGE
diammonium & o-phenylenediammonium fluo-		RAJARAM, J. see Sridhar, N	1171
rides	1302	RAJARAM, P.: Catalytic decomposition of formic	
Pyridinopyrazoles: Behaviour of dehydracetic		acid on manganese molybdate RAJASEKHARA RAO, J. see ADINARAYANA, D	1267
acid with carbonyl reagents: Synthesis of a new pyridinopyrazoles	.570	RAJEEV: Peroxydisulphate oxidations: Part VI	911
1-(2-Pyridylazo)-2-naphthol:Spectrophotometric		— Identification of oxidation products of	
studies on the complexes of 1-(2-pyridylazo)-		aniline & substituted anilines	656
2-naphthol with GeCl ₄ , SnCl ₄ & SnBr ₄	540	RAJENDRA SINGH SEE SABYASACHI SARKAR	523
3-(4-Pyridyl) triazoline-5-thione: Complexes of		RAJU, J. R. see PATIL, S. V RAJU, M. SUBRAMANYAM: Structure of mesuanic	770
Pd(II), Pt(II), Pt(IV), Rh(III) & Rh(I) with 3-(4-pyridyl)triazoline-5-thione	631	acid	884
Pyronine-G: Quenching of fluorescence of pyro-		RAJU, N. R. K.: Methylene blue, rose bengale	001
nine-G by halide ion in water & methanol	1205	& eosin sensitized photooxidation of diphenyl-	
Pyruvonitrile: Coordination complexes of some		amine	422
group (IV) halides: Preparation & infrared spectra of complexes of Ti(IV), Zr(IV), Hf(IV)		RALHAN, N. K. See BHATTI, AMJED M RAMACHANDRAN, B. V. See BHAGWAT, V. M	969 502
& Sn(IV) halides with pyruvonitrile as ligand	843	RAMACHANDRAN NAIR, A. G.: Hibifolin — A	304
Control of the second of the s		new gossypetin glycoside from the flowers of	
		Hibiscus vitifolius RAMACHANDRAN NAIR, C. G.: New redox	890
O in the Complexion of A(2H) spinogologo		KAMACHANDRAN NAIR, C. G.: New redox	
Quinazolone: Synthesis of 4(3H)-quinazolone derivatives	779	titrants in non-aqueous & partially aqueous media: Part IV — Potentiometric titrations	
Quinoline-N-oxide: Synthesis of heterocyclic	• • •	using iodobenzene dichloride in acetic acid	
compounds: Part XIV - Interaction of di-		medium	645
methylsulphoxonium methylide with quino-		RAMADAS, S. S. See SHAH, V. G	419
line-N-oxide & 7-methoxy-4-phenylquinoline-	1238	RAMALINGAM, V. see VISHWANATHAN, B RAMAN, M. see Arumugam, N	205 664
N-oxide Ouinolinium fluorides: Fluoro complex salts of	1430	RAMANA MURTI, M. V.: Conductometric study	004
thorium(IV) with methyl- & ethyl-ammonium		of charge transfer complex of p-phenylene-	
fluorides, pyridinium, substituted pyridinium,		diamine with picric acid	1308
quinolinium & anilinium fluorides & ethylene-		RAMANA RAO, D. V. see DAS, ASOKE K	898
diammonium & o-phenylenediammonium fluo- rides	1302	see Samantaray, Salila Ramanathan, P. S. see Krishnamoorthy, T. S.	836
11062	1002	RAMA RAO, A. V.: Wood phenolics of Morus	, 012
		species: Part III — Phenolic constituents of	
R		Morus rubra bark see Parameswaran, V	431
KADHAKRISHNAMURTI, P. S.: Aromatic nucleophilic substitutions: Part IV — Reactions of		RAMCHANDRA MISHRA SEE SABYASACHI SARKAR	785 523
halo- & nitro-substituted benzene with hy-		RAMESH CHAND See KESSAR, S. V.	113
droxide ion	370	RAMESHWAR DAYAL: Colourless components of	
RADHEY SHYAM See BHARGAVA, P. N.		the roots of Artocarpus heterophyllus: Isolation	00=
Raghunathan, K.: Chrysophanol-1-β-gentio-		of a new compound, artoflavanone RAM GOPAL: Solubilities of some tetraalkyl-	895
bioside, a new anthraquinone glycoside from Cassia tora Linn	1251	ammonium & alkali metal halides in dimethyl	
Constitution of deodarin & synthesis of its		sulphoxide	618
methyl ether & of 6-C-methyltaxifolin	1126	RAM NAYAN SEE TRIPATHI, VIJAY SHANKAR	1199
RAGHUVIR SINGH see AHUJA, I. S	107	RAM PARKASH See PAUL, R. C	986
RAHMAN, S. M. F.: Complexes of nitroalizarin with Zn(II), Mn(II), Co(II), Ni(II) & Y(III)	. 899	RAM SANEHI: Mechanism of chloramine-T oxidation of formaldehyde & acetaldehyde	311
see Khan, Mohd Mahfooz	111	RANGANATHAN, K. R.: Constitution of iso-	
RAI, A. K. see Bohra, Rakesh	855	hydnocarpin isolated from the seed hulls of	
see Singh, A	512	Hydnocarpus wightiana	888
RAI, A. P. see RASTOGI, R. P RAI, HARISH CHANDRA: Fluoro complex salts of	1273	Minor phenolic components of seed hulls of Hydnocarpus wightiana: Constitution	
thorium(IV) with methyl- & ethyl-ammonium		of methoxyhydnocarpin	993
fluorides, pyridinium, substituted pyridinium,		RANGA RAO, V. see NAGARAJAN, K	0 = 0
quinolinium & anilinium fluorides & ethylene-		RANGASWAMI, S. see GUPTA, HARISH CHAND	914
diammonium & o-phenylenediammonium fluo-		CDOTTA DDT D	26, 1251
rides	1302 1294	RAO, A. L. J.: Polarographic determination of	
RAJAN, V. P. see Joshua, C. P	106	Te(IV) with diethylenetriamine	P 4 7
RAJAPPA, S.: Synthesis of thiophenes: Part III		Simultaneous determination of lead &	
— Further variations in the substitution	1	silver: Extraction of lead as xanthate	104
Part IV — Synthesis & reactions of some	1	RAO, A. P. See BATRA, G. S RAO, A. S. See SANE, P. P	4.4.4
2-aminothiophene-3-carboxylic acids		RAO, C. N. R. see Prakash, B	600

RAO, G. N.: Mixed ligand complexes of Cu(II)		Resorcinol-2,4-dicarboxylic acid: Synthesis of	
containing bipyridyl or phenanthroline as one	061	resorcinol-4,6- & 2,4-dicarboxylic acids	946
of the ligands RAO, K. R. K.: Infrared spectra & molecular	861	Resorcinol-4,6-dicarboxylic acid: Synthesis of resorcinol-4,6- & 2,4-dicarboxylic acids	946
structure: Part III — Benzbetaines & their		Retinyl acetate: Preparation of kitol acetate	770
hydrohalides	423	from retinyl acetate by the action of indirect	
RAO, P. R. see JAIN, A. C	659	sunlight REWAL, D. V. L. see TREHAN, I. R	1216
RAO, T. NAVANEETH see RAJU, N. R. K RAO, V. ARUNA: Synthesis of 3-substituted-	422	REWAL, D. V. L. see TREHAN, I. R. Rh(I): Complexes of Pd(II), Pt(II), Pt(IV),	109
1,2,3,4,5,5a,6,7 - octahydro[1,4]diazepino[1,7-		Rh(III) & Rh(I) with 3-(4-pyridyl)triazoline-	
a]quinoline	425	5-thione	631
RAOOT, K. N.: Determination of palladium by	4.00	5-thione Rh(III): Complexes of Pd(II), Pt(II), Pt(IV),	
complexometric titration RAOOT, SARALA see RAOOT, K. N	1007	Rh(III) & Rh(I) with 3-(4-pyridyl)triazoline-	
RASTOGI, M. C.: Stabilization of sandy soils by	1007	5-thione Complexes of 1-phenyl-3-(2-pyridyl)-2-thio-	631
chemical additives: Part I — Adsorption of		urea with Co(II), Ni(II), Cu(I), Zn(II),	
surface active agents at soil water interface	158	Pd(II), Cd(II), Pt(II), Bi(III) & Rh(III)	845
Part II — Effect of surface active agents		Preparation & study of some monocarbonyl	
on capillary characteristics of sandy	732	complexes of rhodium(III)	858
soils	134	Spectral & magnetic studies on Ni(II), Cu(II), Rh(III), Pd(II) & Pt(II) com-	
some fluorosubstituted aromatic systems using		plexes of thiosalicylic acid	769
a variable electronegativity formalism	601	Rhodium: Hydride & carbonyl complexes of	
RASTOGI, R. P.: Characteristics of the oscillating		rhodium & iridium with n-propyldiphenyl-	40#
reaction between malonic acid & cerium ion & bromate ion	687	arsine RISK, A. S. see Nosseir, M. H	185 668
Characteristics of chemical oscillators: Part	007	Ritter reaction: A novel cleavage of a steroid	966
II — Mn ²⁺ catalysed oscillatory reaction		epoxide on Ritter reaction	992.
between malonic acid & bromate ion	974	RIZVI, RAZIA K. SEE GUPTA, C. M	674
Thermochemistry of oscillating reactions	1280	Rose bengale: Methylene blue, rose bengale &	
Thermo-osmosis of quaternary gaseous mix- tures of oxygen, nitrogen, ethylene &		eosin sensitized photooxidation of diphenylamine	422
carbon dioxide through unglazed por-		amine Rout, M. K. see Singh, B. C	421
celain see Agarwal, S. K 30	1273	Roy, Anjan: Linear furocoumarins: Part VI —	
see Agarwal, S. K 30	04, 907	O- & C-allylation of dihydroumbelliferone	564
RASTOGI, SHRI NIVAS: 3,4-Bridged indoles: Part I — A novel synthesis of 1,3,4,5-tetra-		ROY CHOWDHURY, S. see PODDAR, S. N. 724, ROY, SILA see BHATTACHARYYA, B. C	11107
hydropyrido[5,4,3-cd]indole	207	Ru: Manganese dioxide as sorber in the deter-	1110
see Ananthanarayanan, C. V	31 -	mination of Ce, Ru, Zr & Cs fission nuclides	
see Jain, B. C Rath, A. C. see Behura, B	1021	from seawater by neutron activation analysis	200
	781 346	RUKMANI IYER, C. S.: Chemical investigation of <i>Ipomoea fistulosa</i> : Isolation, structure &	
RATNAM, C. V. see VEERANAGAIAH, V RAWAT, P. C.: Polarographic studies on cad-	310	synthesis of marsilin	281
mium & lead complexes of thiosinamine in		Ruthenium(II) dicarbonyl dihalides: Complexes	
aqueous & aqueous-methanolic solutions	174	of metal ions with phosphorus or arsenic	
RAY, ARABINDA: Infrared spectra of dithio-	1092	containing ligands: Part XVI — Complexes of ditertiaryphosphines/arsines with ruthenium	
oxamide & its complexes RAY, HEM LATA: Spectral & magnetic studies	1094	(II) dicarbonyl dihalides	834
on salicylaldehyde hydrazone complexes of		7-O-Rutinosides of biochanin-A & formononetin:	
Ni(II) & Pd(II)	532	Two new rhamnoglucosides of the bark of	#40
RAY, K. C.: Correlation of zero points of charge		Dalbergia paniculata	518.
of solid oxides & hydroxides with partial charge of surface oxygen atom	170		
The zero point of charge of chromic oxide	110		
solution interface	75	SACHDEV, G. P. see BASSI, PARMJIT S	727
RAY, N. K. see RASTOGI, R. C	601	SAHOO, B. see RAI, HARISH CHANDRA	1302
REDDY, C. DEVENDRANATH see NAIDU, M. S. R.		Sahu, Janardan see Radhakrishnamurti,	
REDDY, G. K. N.: Hydride & carbonyl complexes of rhodium & irridium with n-propyl-	349	The C	270
diphenylarsine	349	P. S	370
	185	P. S SAHU, N. P.: Cadambagenic acid: A new tri-	370
REDDY, G. R.: Analysis of uranium by delayed	185	P. S SAHU, N. P.: Cadambagenic acid: A new triterpenic acid from Anthocephalus cadamba Miq	370· 284·
REDDY, G. R.: Analysis of uranium by delayed fission neutron counting method		P. S SAHU, N. P.: Cadambagenic acid: A new triterpenic acid from Anthocephalus cadamba Miq SAKLA, ALFY BADIE: Reactions of 1,1-bis-	
REDDY, G. R.: Analysis of uranium by delayed fission neutron counting method Rengasin: A new method of partial methyla-	185 405	P. S SAHU, N. P.: Cadambagenic acid: A new triterpenic acid from Anthocephalus cadamba Miq SAKLA, ALFY BADIE: Reactions of 1,1-bis-(p-nitrophenyl)-2,2-dihalogeno-ethanes & 2-	
REDDY, G. R.: Analysis of uranium by delayed fission neutron counting method	185	P. S SAHU, N. P.: Cadambagenic acid: A new triterpenic acid from Anthocephalus cadamba Miq SAKLA, ALFY BADIE: Reactions of 1,1-bis-	

INDEX

	PAGE		PAGE
see Aziz, Gamil	481	SARAMMA, K. see MANGALY, JESSY J	695
SAKSENA, A. R. see BALKRISHNA Salacia prinoides DC: Comments on some recent papers on the triterpenes of Salacia prinoides	209	SARASWATHI, G. N.: Studies in terpenes: Part XXXVII — Investigations on Baeyer's carvestrene & (±)-sylvestrene [(±)-m-	
DC SALAMA, M. A. see GOGTE, V. N	894	mentha- $1(6)$,8-diene]	561
SALAMA, M. A. see GOGTE, V. N. SALEM, E. M. S.: Intramolecular reactions in	1234	SARKAR, SABYASACHI: Tricyanobis(pyridine) nitrosyliron(II)	523
peptides containing 2,4-diaminobutyric acid Synthesis of peptides containing L-α,γ-	1216	SARMA, ALURU S. see CHAKRABORTTY, PRATUL	948
diaminobutyric acid & glycine	1071	N SARMA, T. P. see SASTRY, V. N SAROJINI, B. see GANDIKOTA, MURALI	200
see El-Naggar, A. M Salicylaldehyde: Complexes of tin(IV) with some	1161	SAROJINI, B. see GANDIKOTA, MURALI KRISHNA	203
tetradentate Schiff bases derived from sali- cylaldehyde & diamines	1105	SASTRI, M. N. see Prasad, G. Vasudeva SASTRI, M. V. C. see Rajaram, P	1318 1267
Salicylaldehyde hydrazone: Spectral & magnetic		see Vishwanathan, B	205
studies on salicylaldehyde hydrazone complexes of Ni(II) & Pd(II)	532	SASTRY, K. A. R. see GOGTE, V. N. SASTRY, V. N.: Manganese dioxide as sorber	1147
N-Salicylideneglycine: Cobalt(II) complexes of N-salicylideneglycine	215	in the determination of Ce, Ru, Zr & Cs fission nuclides from seawater by neutron	
SAMANT, B. R.: Tetracyclines: Part X — Syn-	210	activation analysis SATHE, R. N. see GOGTE, V. N 1152,	200
thetic approaches for the introduction of amine functions in ring-A of hexahydro-		SATHYANARAYANA, D. N. see RAY, ARABINDA	1092
naphthacenes SAMANTARAY, SALILA: Reaction of nickel(II)	916	SATO, N. see ABOU-ROMIA, MALAK M SAUND, A. K. see BHAGWATI PRASAD	1180 290
dithiocarbamates with nitric oxide	836	SAVARI RAJ, G. A. see Srinivasan, G. M.	610
SAMMOUR, A.: Condensation of 3-carbethoxy-coumarin with ketones in the presence of		SAXENA, ANIL K.: Epimerization of cis- & trans-1-phenyl-1,2,3,4-tetrahydro-9(H)pyrido-	
ammonium acetate or amines SANDHU, GURMIT KAUR see SANDHU, SARJIT	51	[3,4-b]indole-3-carboxylic acids by treatment with acids & bases	892
Singh	830	SAXENA, D. B. see Maheshwari, M. L	1221
SANDHU, SARJIT SINGH: Complexes of diter-	`	SAXENA, N. K. see MAYA SAXENA, O. C. see MISRA, B. N	648 1005
tiaryphosphine/arsine oxides with metal ions: Part VII — Complexes of La(III), Nd(III)		SAXENA, R. C. SEE MALIK, W. C	768
& Sm(III) nitrates with oxides of ethylene-		SAXENA, R. S.: Polarographic behaviour of	F20
1,2-bis-diphenylphosphine/arsine & butylene- 1,4-bis-diphenylphosphine/arsine	1102	ethane-1,2-dithiol Stabilities of uranyl complexes of methyl	528
Complexes of metal ions with phosphorus		3-mercaptopropionate	1004
or arsenic containing ligands: Part XVI — Complexes of ditertiaryphosphines/		SAXENA, SANTOSH K. see BEG, M. AIJAZ Sb(III): Amperometric determination of Tl(I),	387
arsines with ruthenium(II) dicarbonyl	024	Sb(III) & V(IV) with lead(IV) acetate	540
dihalides	834	Sb(V) chloride: Adducts of Sb(V) chloride & fluoride with dialkyl esters of oxalic, succinic,	
Co(II), Ni(II), Cu(II), Zn(II) & Cd(II)		malonic & adipic acids	982
complexes with ethyl 3-[(o-arsonophenyl) imino]-butyrate & N(1-methyl-3-oxo-		Sb(V) fluoride: Adducts of Sb(V) chloride & fluoride with dialkyl esters of oxalic, succinic,	
butylidene)-o-arsanilic acid	830	malonic & adipic acids	982
Sandy soils: Stabilization of sandy soils by chemical additives: Part I — Adsorption of		Schiff bases: Complexes of tin(IV) with some tetradentate Schiff bases derived from sali-	
surface active agents at soil water inter-	150	cylaldehyde & diamines	1105
SANE, P. P.: Epoxidation of cis-pulegol &	158	Metal chelates with Schiff bases: Part I — Co(II), Ni(II), Cu(II), Zn(II) & Cd(II)	
6-benzylidene-2-methylcyclohexanol	444	complexes with ethyl 3-[(o-arsonophenyl) imino]butyrate & N-(1-methyl-3-oxo-	
biplumbagin	519	butylidene)-o-arsanilic acid	830
SANKARAN, K. SEE PANDIT, U. S PANAGHANDRAN	96	Ni(II) & Cu(II) complexes with Schiff bases	984
SANKARA SUBRAMANIAN, S. see RAMACHANDRAN NAIR, A. G	890	Schneller, S. W. see Hosmane, R. S	1009
SANKAR DAS, M. see REDDY, G. R	405 424	Seawater: Manganese dioxide as sorber in the	
SANTAPPA, M. see MARUTHAMUTHU, P see NAGABHUSHANAM, T 142,	1205	determination of Ce, Ru, Zr & Cs fission nuclides from seawater by neutron activation	
Sant-4(15)-enolide: Reactions of sant-4(15)-	1012	analysis Secondary alcohol tosylates: Elimination re-	200
enolide	422	action of secondary alcohol tosylates in	
Sapogenol: Structure of careyagenol-E, a new		dimethyl sulphoxide SEHGAL, S. M. see MALHOTRA, K. C. 982,	583
triterpenoid sapogenol from Careya arborea seeds	888	SEHGAL, Y. P. see BLOKHRA, R	998

	PAGE	PAGE
SEJEKAN, B. G.: Nickel(II)-diethanolamine		SHAFIULLAH see AHMAD, M. S 1323
complexes	533	SHAH, B. V. see TALATI, A. M 658.
SEKHON, B. S.: Studies on the formation of		SHAH, D. O.: Synthesis of β-(coumaryl)-alanine
complexes of glutamine with Y(III), La(III),	1322	derivatives 1014 Shah, G. D. see Pathare, P. P 793
Ce(III) & U(VI) SEKINE, T. see ABOU-ROMIA, MALAK M	1322 1180	Shan, G. D. 300 Tainare, T. T 773
Selenium: Separation of selenium valences by	1100	SHAH, J. R. see PARMAR, M. M 536
paper chromatography	393	see Patel, B. B 217
Selenium trioxide: Chemistry of selenium		SHAH, K. B. see TALATI, A. M 537
trioxide: Part I — Preparation of some		SHAH, K. H. see SHAH, M. K 357
chloroselenates	320	Shah, M. K.: Substitution reactions of cerami-
Part IV — Complexes of selenium trioxide	~	doninediones: Part I — Bromination &
with mono- & dicarboxylic acids	757	nitration 357
Selinum tenuifolium: Investigation on the coumarins of Selinum tenuifolium	1327	Shah, N. J. see Merchant, J. R 994 Shah, R. K. see Nagarajan, K 227, 236, 252,
Semiconductors: Role of atomic numbers of	1521	221, 250, 252, 258, 263
elements in the band gap refractive index &		Shah, V. G.: Simultaneous microdetermination
		of sulphur & phosphorus in organic compounds 419
specific gravity of some group II-VI semi- conductors	210	SHAIKH, Y. A.: Studies in 4-hydroxycoumarins:
Sen, Debabrata see Maitra, Amarnath	183	Part IV — Synthesis of 5,7,8-trimethoxy- &
SEN, D. N. see PATIL, J. N SEN, G. see ADHIKARI, M	189	5,6,7,8-tetramethoxy-4-hydroxycoumarins 1262:
	999	SHALABY, A. F. A.: Cleavage of alkylmercapto
SEN, KALYANMAY see ROY, ANJAN SEN, P. K. see RAY, K. C	564 170	group & exocyclic azamethine linkage in 2-thiohydantoin derivatives 577
SENGUPTA, A. K.: Solubility of calcium oxalate	170	2-thiohydantoin derivatives 577 Shamanna, D.: Kinetics of reaction of 4,6-
in beryllium nitrate solutions	1001	dihalo-1,3-dinitrobenzenes with aniline 510
SENGUPTA, K. K. see MOULIK, S. P	92	SHARMA, ASHOK see KESSAR, S. V 1245
SENTHILNATHAN, V. P.: Electronic spectra of		SHARMA, C. K.: N,N-Diethylamino-oxy deri-
bichromenes	1207	vatives of boron & aluminium 218
ESR studies of aromatic anion radicals in	1311	SHARMA, D. K. see PARTHASARATHY, M. R 1009
binary solvent mixtures Serine: Synthesis of some peptides containing	1311	SHARMA, INDU BHUSHAN see BASSI, P. S 813 SHARMA, J. C.: Kinetics & mechanism of Ag ⁺ -
lysine, serine & glycine	1161	catalysed oxidation of lactic, malic & man-
SESHADRI, R.: Chemical components of Cyathea		
spinulosa leaves	783	delic acids by peroxydisulphate 1177 SHARMA, K. K. see JAURA, K. L 766
Seshadri, S. see Chandramohan, M. R	940	SHARMA, KRISHAN DEV see PAHIL, SARVINDER
see Pandit, R. S W. W.	943 ' 471	SINGH 1316
Seshadri, T. R. see Ahluwalia, V. K see Ahuja, M 26, 292,		SHARMA, P. D.: Kinetics & mechanism of elec-
see Bahl C. P	1038	tron transfer reactions of aquo & coordinated thallium(III): Part VI — Reduction of chloro
see Bahl, C. P see Bajwa, B. S see Bandopadhyay, M 23	15	thallium(III) complexes by antimony(III) 100
see Bandopadhyay, M 23	, 295	SHARMA, R. D. see PAUL, R. C 320, 757
see Bhanu, S see Bhaskar, Anil	20.	SHARMA, R. D. see Paul, R. C 320, 757 SHARMA, R. G. see SRIVASTAVA, S. P. 684 SHARMA, R. P. see Paul, R. C 418, 757, 761
	557	SHARMA, R. P. see PAUL, R. C 418, 757, 761
see Deshmukh, S. W see Dhingra, V. K	893 1118	SHARMA, S. C.: Multiple melting transitions in
see Jayalakshmi, V	441	cellulose tripropionate 1297 Sharma, S. D. see Vig, O. P 1050, 1158
see Kalra, A. J	1040	SHARMA, S. K. see Paul, R. C 651, 825, 827
	, 554	SHARMA, T. D. see GANDHI, R. P 117
see Kulshrestha, S. K	10	SHARMA, V. N. see DIXIT, B. S 780
see Mahey, Sulekha	29	SHAW, S. C. see PRASAD, K. B 344
see Parthasarathy, M. R	518 1126	Shawali, A. S.: Substituent effects on keto-enol equilibrium of benzoylacetanilides 1074
see Raghunathan, K see Ranganathan, K. R 888	, 993	equilibrium of benzoylacetanilides 1074 Tautomerism in analogs of potential anti-
SETH, M.: Studies in antiamoebic agents:	•	diabetics: 5-Arylazo-4-hydroxy-1-arylpy-
Syntheses of substituted indophenazines, aza-		razole-3-carboxanilides 298
indophenazines & azaquinoxalines	124	SHENBAGAMURTHI, P. see ARUMUGAM, N. 323, 664
Temperature dependent magnetic non-		SHENDY, S. M. see AWAD, W. I 1060
equivalence of methylene protons in N-acetyl-N-phenacyl aromatic amines	410	SHERIF, M. K.: Chemical effects of ⁵¹ Cr neutron capture recoils in K ₂ CrO ₄ -K ₂ SO ₄ mixed
SETHURAM, B. see RAJU, N. R. K	422	crystals $R_2CIO_4-R_2SO_4$ innixed crystals $T12$
SETTY, T. H. V. see MAYANNA, S. M	1083	SHETH, J. P.: Anomalous products of Ullmann
Seychelane: Seychellene & seychelane from	1051	condensation 1254
Nardostachys jatamansi	1221	SHETTY, H. GANESH see DAVE, L. D 764
Seychellene: Seychellene & seychelane from Nardostachys jatamansi	1221	SHIVA SARAN DAS: On the stability of electro- kinetic steady states 897
A V GO GO SEGUCION STANDARIO CONTRA C	A Seed And A	Military Strates 09/

SHOUKRY, SAFWAT see SAKLA, ALFY BADIE	1063	SINGHAL, S. K. see SRIVASTAVA, S. P.	72, 684
SHUKLA, J. P.: Cu(II), Zn(II), Ni(II), Co(II) &		SINHA, K. O. P. see VERMA, S. M	586
Mr. (II) chelates of N-phenyl-2-furohydroxa-	534	SINHA, N. D. see CHATTERJEA, J. N SINHA, S. K. see PANDIT, U. S	1256 96
mic acid SHUKLA, P. N. see GARG, A. N	996	Sintamil: Condensed heterotricycles: Potential	90
SHYAMA SUNDAR, N. SEE SUBBA RAO,	4.00	metabolites of dibenz $[b,f][1,4]$ oxazepine anti-	
G. S. R SiCl ₄ : Vapour pressures & excess Gibbs energies	429	depressant, Sintamil	270
for the system $SiCl_4+n$ -heptane & $SiCl_4+$		Sitost-4-en-3-one: Mass & NMR spectral studies of sitost-4-en-3-one from Tabebuia rosea DC	903
<i>p</i> -xylene	724	SIVANANDAIAH, K. M. see CHANNABASAVAIAH,	703
SIDDALINGAIAH, K. S. see SHAMANNA, D	-510	K	1203
SIDDIQUI, K. S. see ZAIDI, S. A. A. 429, 540,	1197 1327	SIVASUBRAMANIAN, S. see ARUMUGAM, N. 3.	23, 664
SIDDIQUI, S. A. see AHMAD, S. AZIZ SIDHESWARAN, P.: Peaks in anodic charging	1347	Sm(III): Complexes of ditertiaryphosphine/ arsine oxides with metal ions: Part VII—	
curves for the oxidation of chemisorbed films	741	Complexes of La(III), Nd(III) & Sm(III)	
SIDHU, G. S. see SANKARAM, A. V. B	519	nitrates with oxides of ethylene-1,2-bis-	
Silver(I): Complexes of silver(I) with pyrazole,	751	diphenylphosphine/arsine & butylene-1,4-bis-	1100
a potentiometric study Mass dependence for the impurity diffusion	754	diphenylphosphine/arsine La(III), Ce(III), Pr(III), Nd(III) & Sm(III)	1102
of cobalt in silver	702	chelates of N-(2-hydroxy-1-naphthali-	
Simultaneous determination of lead &		dene)anthranilic acid	1321
silver: Extraction of lead as xanthate	903	Sn(II): Chemistry of substituted sulphuric acids:	
Silver halides: Solubility products & related		Part VIII — Methanesulphonates of Sn(II),	(= 1
thermodynamic parameters for the disso- lution of silver halides in molten calcium		Sn(IV) & Zn(II) Sn(IV): Adducts of hydrazine with some Sn(IV)	651
nitrate tetrahydrate-sodium nitrate mixtures	613	compounds	1304
Silver perchlorate: Some observations on the		Chemistry of substituted sulphuric acids:	200.
solubility of benzene-silver perchlorate	44.	Part VIII — Methanesulphonates of	
system	416	Sn(II), Sn(IV) & Zn(II)	651
monoxime as a new selective reagent for the		SnBr ₄ : Spectrophotometric studies on the complexes of 1-(2-pyridylazo)-2-naphthol with	
determination of Pd(II)	110	GeCl ₄ , SnCl ₄ & SnBr ₄	540
Acenaphthenequinonemonoxime as a		Sn(II) bromide: Adducts of diphenyl sulphoxide	0.0
spectrophotometric reagent for rapid		with Sn(II) chloride & bromide & phenyltin	
determination of cobalt	221	(IV) & ethyltin(IV) chlorides	766
SINGH, A.: Organometallic oximes & allied derivatives: Part III — Preparation, pro-		Sn(II) chloride: Adducts of diphenyl sulphoxide with Sn(II) chloride & bromide & phenyltin	
perties & infrared spectroscopic studies of		(IV) & ethyltin(IV) chlorides	766
some organotin oximates	851	SnCl4: Spectrophotometric studies on the	
Synthesis of titanium(IV) oximates	512	complexes of 1-(2-pyridylazo)-2-naphthol with	# 4.0
Singh, B.: Complexes of Pd(II), Pt(II), Pt(IV),		GeCl ₄ , SnCl ₄ & SnBr ₄	540
Rh(III) & Rh(I) with 3-(4-pyridyl)triazoline-	631	Sn(IV) halides: Complexes of Ge(IV) & Sn(IV) halides with substituted anilines	429
5-thione see JAURA, K. L	1304	Coordination complexes of some group (IV)	127
Singh, B. C.: Kinetics of oxidation of α -picoline		halides: Preparation & infrared spectra of	
by Ce(IV) in acetic acid SINGH, M. see KESSAR, S. V	421	complexes of Ti(IV), Zr(IV), Hf(IV) &	
SINGH, M. See KESSAR, S. V	323 858	Sn(IV) halides with pyruvonitrile as	843
SINGH, M. M. see GOSWAMI, K SINGH, P. P.: Infrared spectral studies on the	020	ligand Symmetrical & unsymmetrical alkyldithio-	043
complexes of tin(IV) halides with 3-		carbamate complexes of Sn(IV) halides	
substituted pyridines	192	& Ge(IV) chloride	1197
SINGH, P. R.: Electron transfer radical mecha-		Sn-O bond: Organic derivatives of tin: Part	
nism in the reaction of 9-bromo-9-phenyl-	1306	VIII — Some insertion reactions across Sn-O	1193
fluorene with nucleophiles SINGH, PREM NARAYAN: Reactions & synthesis	1300	bond SO ₄ ²⁻ : Ionic conductivity & transport para-	1193
of 2,4-dimethyl-7,8-benzoquinoline	1016	meters in KCl crystals doped with Li ⁺ , Pr ³⁺ ,	
SINGH, R. see SINGH, B	631	$\& SO_4^{2-} \dots \dots \dots \dots \dots \dots$	607
SINGH, R. P. see RAY, HEM LATA	532	Sodium bis-(2-methoxyethoxy)aluminium hy-	
	0, 221 1116	dride: Course of reduction of dicarboxylic	
SINGH, S.: Role of atomic numbers of elements	1110	amino acids with sodium bis-(2-methoxy-ethoxy)aluminium hydride	290
in the band gap refractive index & specific		Sodium borohydride: Applications of NMR	
gravity of some group II-VI semiconductors	210	spectroscopy & mass spectrometry to some	
SINGHAL, NARAYAN SWAROOP: A study of		problems concerning synthetic dyes: Part IX	
molecular exchange phenomenon using radio-	167	Action of sodium borohydride on some cationic dyes	785
active mercury vapours	107	cationic dyes	703

	PAGE		PAG
Reaction of sodium borohydride with		N,N'- bis -(3- aminopropyl)-1,2- ethanedi-	
open-chain conjugated azomethine N-		amine	128
oxides (nitrones)	222	SRIVASTAVA, S. N. see DIXIT, B. S	78
Sodium hydrogen malonate: Infrared spectrum		SRIVASTAVA, S. P.: Kinetics of oxidation of	
& hydrogen bonding in sodium hydrogen		aromatic alcohols by peroxydisulphate: Part	60
malonate	997	II — Oxidation of α-phenylethanol	68
Sodium 2-hydroxyethoxide: Reactions of 1,1-		Kinetics of oxidation of benzaldehyde by	7
bis-(p-nitrophenyl)-2,2-dihalogenoethanes &		peroxydisulphate	7
2-halogenoethylenes with sodium 2-hydroxy-		see Rajeev see Sharma, J. C	117
ethoxide: Study of antimicrobial activity of	1062	SRIVASTAVA, T. N.: Far infrared spectra of	117
p-nitro- & p-amino-derivatives	1063	*complexes of diaryltin dihalides with certain	
Sodium nitrate: Solubility products & related thermodynamic parameters for the disso-		amides	9
lution of silver halides in molten calcium		Standard electrode potential: Standard electrode	
nitrate tetrahydrate-sodium nitrate mixtures	613	potential of the formation cell Ag/Ag ₂ SO ₄ (c)/	
Chronopotentiometry of Ag(I) in molten	013	$SO_3(g), O_2(g), Pt$	100
sodium nitrate-barium nitrate eutectic	78	STERMITZ, FRANK R.: Total synthesis of the	
Soil/water interface: Stabilization of sandy soils	, ,	pavinane alkaloid (±)-munitagine	1249
by chemical additives: Part I — Adsorption		Δ ⁵ -Steroid: A simple method to convert a	
of surface active agents at soil/water inter-		3,5-cyclosteroid into a Δ ⁵ -steroid	99
face	158	Steroidal sapogenins from Agave vera-cruz Mill	429
Soman, S. V. see Manjrekar, S. K	307	Steroids: [Eu(DPM) ₃]-induced shifts in steroids:	
Soni, P. L. see Bose, S	680	Part I —A study of bifunctional molecules	920
Soymida febrifuga A. Juss: Occurrence of methyl		3-Styryl-2H-1,4-benzoxazin-2-ones: Behaviour	
angolensate & deoxyandirobin in Soymida		of 3-styryl-2H-1,4-benzoxazin-2-ones towards	
febrifuga A. Juss	207	amines, hydrazines & Grignard reagents	566
Specific gravity: Role of atomic numbers of		SUBBARAMAN, P. R. see Atchayya, M	633
elements in the band gap refractive index		Subba Rao, A.: Synthesis of heterocycles: Part	1029
& specific gravity of some group II-VI semi-	210	II — Pyrano[2,3-d]pyrimidines	1028
conductors	210	SUBBA RAO, G. S. R.: Steroidal sapogenins from	429
Sr(II): Influence of sample size on non-iso-		Agave vera-cruz Mill Subbarao, N. V. see Lakshmi, P	743
thermal kinetics of dehydration of hydrated oxalates of Mg(II), Ca(II), Sr(II) &		see RAIII M SUBRAMANYAM	884
dehydroxylation of Mg(OH) ₂ & \alpha-UO ₃ ·H ₂ O	1286	see Raju, M. Subramanyam see Veeranagaiah, V	346
SREENIVASAMURTHY, G. SEE VENKAPPAYYA, D.	525	SUBBAYAN, M.: Separation of selenium valences	
SREENIVASAN, R. See RAJAPPA, S	4	by paper chromatography	393
SRIDHAR, N.: Bromination of mesitylene in	·	SUBRAHMANYAM, K. see MADHUSUDHANA RAO, J.	762
acetic acid — Effect of hydrogen bromide	1171	SUDARSHAN LAL see ANAND KUMAR	538
SRIMAL, R. C. see ANANTHANARAYANAN,		Succinic acid: Adducts of Sb(V) chloride &	
C. V	31	fluoride with dialkyl esters of oxalic, succinic,	
see Jain, P. C	1021	malonic & adipic acids	982
SRIMANNARAYANA, G. see LAKSHMI, P	8	SUDHAMSHUMOULI, P. see DAVE, L. D	771
see Kaju, M. Subramanyam	884	Suguna, H.: Synthesis of 2-(p-hydroxybenzyl)-	
SRINIVASAN, G. M.: Variation of internal pres-		7-hydroxy-6-methoxy-1,2,3,4-tetrahydroiso-	11/1
sure in liquids & liquid mixtures: Benzene &	610	quinoline (Corgoine)	1141
triethylamine SRINIVASAN, V. see RAJARAM, P	610 1267	Sulphosalicylic acid: Influence of oxalate, tar-	
Srinivasan, v. see Rajaram, P. Srinivasan, V. S.: Kinetic isotope effect in	1407	trate on titanium-gallic acid/protocatechuic acid/sulphosalicylic acid systems in weakly	
Tl(III) oxidation of alcohols	990	acidic medium	642
SRIVASTAVA, A. K. see SINGH, P. P	192	5-Sulphosalicylic acid: Spectrophotometric	012
SRIVASTAVA, B. B. P. see GUPTA, C. M	674	studies on colourless complexes of Fe(III)	
	1193	with oxalic, citric & malonic acids & EDTA	
see Mehrotra, S. K	629	using 5-sulphosalicylic acid as an auxiliary	
SRIVASTAVA, J. N.: Thiotropolone as a colori-		ligand	536
metric extractive reagent for Pt(IV)	1116	Sulphur: Kinetics of solid state reaction between	
SRIVASTAVA, K. P. see AGARWAL, NARESH K	874	copper & sulphur	813
SRIVASTAVA, M. N. see TEWARI, R. C	527	Oxidation of low valent sulphur compounds	
SRIVASTAVA, R. C.: Thermo-osmosis of water	1051	with lead(IV) acetate: Potentiometric	0==
through bentonite	1276	determination of bisulphite	877
SRIVASTAVA, S. K.: Molybdenum & palladium	F00	Simultaneous microdetermination of sul-	410
complexes of α-mercaptopropionic acid	530	phur & phosphorus in organic compounds	419
Thermodynamics of interaction of Ni(II)	726	Synthesis of heterocyclic compounds: Part	
ion with monothiodibenzoylmethane	736	IX — Synthesis of heterocyclic com-	1147
Thermodynamics of linked metal chelate		pounds containing sulphur & nitrogen Sulphur monoiodide: Preparation of sulphur	117/
rings: Part III — Enthalpies & entropies of reaction of Cu(II) & Ni(II) ions with		monoiodide & thionyl iodide	417
of touchout of Cultil of Ivilia Willi		ALLOADOLOGICO DE DILITAT AUGUSTO 666 666	

	2 1 2 0 2 2		21102
Sulphuric acid: Kinetic & analytical studies on		Nickel chelates of oxime-hydrazones	216
the oxidation of thiocyanate by chromic acid	000	TANEJA, ARJUN D. see AGARWAL, NARESH K	874
in aqueous sulphuric acid medium	880	Tartrate: Influence of oxalate & tartrate on	
Kinetics of oxidation of glycerol by vana- dium(V) in sulphuric & perchloric acids	365	titanium-gallic acid/protocatechuic acid/sul- phosalicylic acid systems in weakly acidic	
Chemistry of substituted sulphuric acids:	000	medium	642
Part VIII — Methanesulphonates of Sn-		Te(IV): Polarographic determination of Te(IV)	
(II), $\operatorname{Sn}(\operatorname{IV})$ & $\operatorname{Zn}(\operatorname{II})$	651	with diethylenetriamine	542
Part IX — Methanesulphonates of V(III),	925	Tetraalkylammonium: Solubilities of some tetra-	
Cr(III), Co(II), Ni(II) & Cu(II) SUNDAR, R.: A study of bond formation in the	825	alkylammonium & alkali metal halides in dimethyl sulphoxide	618
Li. molecule	145	Tetrachlorophthalic anhydride: Electrical con-	
Li ₂ molecule Sundaram, A. K. see Sundaresan, R	868	ductivity of polystyrene-chloranil & poly-	
SUNDARAM, E. V. see LINGAIAH, P	539	styrene-tetrachlorophthalic anhydride systems	698
Sundaresan, R.: Evaluation of stability con-		Tetracyanoquinodimethane: Solid complex of	1212
stants from polarographic data of irreversible processes: Mixed complexes of zinc with		phenazine & tetracyanoquinodimethane Tetracyclines: Part X — Synthetic approaches	1313
glycine & α-alanine	868	for the introduction of amine functions in	
Sur, S.: Donor-acceptor complex of biacetyl		ring-A of hexahydronaphthacenes	916
with aliphatic amines	524	Part XI — Introduction of additional oxy-	
Surface active agents: Stabilization of sandy		gen functions in rings B & C of hexa-	020
soils by chemical additives: Part I — Adsorption of surface active agents at soil/water		hydronaphthacenes	920
interface interface active agents at son/water	158	Tetrahydrate: Solubility products & related thermodynamic parameters for the dissolution	
Suri, K. S.: Thermodynamics of nitromethane		of silver halides in molten calcium nitrate-	
solutions: Part I — Excess volumes of mixing		tetrahydrate-sodium nitrate mixtures	613
of binary solutions of nitromethane with	(00	1,3,4,5-Tetrahydropyrido[5,4,3-cd] indole: 3,4-	
benzene, dioxane & chloroform	620 714	Bridged indoles! Part I — A novel synthesis	207
SURJIT SINGH see JAIN, D. V. S see SENTHILNATHAN, V. P 1207	1311	of 1,3,4,5-tetrahydropyrido[5,4,3-cd]indole Tetralin: Friedel-Crafts condensation of the	201
SUSHMA RISHI: Synthesis of a few homodetic	,	lactone of 4-methyl-2-hydroxycyclohexyl-	
cyclic tetrapeptides	458	acetic acid with aromatic hydrocarbons: Part	
Swarnakar, R. D.: Studies on oxypentachloro-	207	II— Condensation with p -xylene & tetralin	958
molybdates(V)	396 176	2,3,7,8-Tetramethoxydibenzo [a, d] cyclohepta-	
SYAL, S. K. see Yoganarasimhan, S. R Sydnones: Reactions of sydnones: Part I —	170	dien-5-one: Dibenzocycloalkanones: Part II — Synthesis of 2,3,7,8-tetramethoxydibenzo-	
Chlorination using N-chlorosuccinimide &		[a , d]cycloheptadien-5-one	1056
1,3-dipolar addition reactions	671	2,3,7,8-Tetramethoxydibenzothiophenes: Consti-	
SYED NIZAMUDDIN: 3-Arylisocoumarin: Syn-		tution of minor products obtained during	
thesis of 3-(3',4'-dimethoxyphenyl)-6,7-di-	474	synthesis of 2,3,7,8-tetramethoxy- & 2,3,8,9-	
methoxyisocoumarin Dibenzocycloalkanones: Part II— Synthesis	7/7	tetramethoxydibenzothiophenes & their dioxides	64
of $2,3,7,8$ -tetramethoxydibenzo[a,d]cyclo-		2,3,8,9-Tetramethoxydibenzothiophenes: Consti-	
heptadien-5-one	1056	tution of minor products obtained during	
(\pm) -Sylvestrene $[(\pm)$ -m-mentha-1(6),8-diene]:		synthesis of 2,3,7,8-tetramethoxy- & 2,3,8,9-	
Studies in terpenes: Part XXXVII — Investi-		tetramethoxydibenzothiophenes & their di-	64
gations on Baeyer's carvestrene & (\pm) -sylvestrene $[(\pm)$ -m-mentha-1(6),8-diene]	561	oxides 5,6,7,8-Tetramethoxy-4-hydroxycoumarins: Stu-	04
Synergic extraction of cobalt(II) from acetate		dies in 4-hydroxycoumarins: Part IV—	
buffers by mixtures of thenoyltrifluoroacetone	4	Synthesis of 5,7,8-trimethoxy- & 5,6,7,8-tetra-	
& alcohols in benzene	1199	methoxy-4-hydroxycoumarins	1262
		Tetrapeptides: Synthesis of a few homodetic	458
		cyclic tetrapeptides TEWARI, R. C.: Infrared spectra of some bi-	430
I abebuia rosea DC: Mass & NMR spectral		valent metal chelates of l-asparagine &	
studies of sitost-4-en-3-one from Tabebuia		l-glutamine	527
rosea DC	903	THAKKAR, S. H. see MERCHANT, J. R	657
TADWALKAR, V. R. see SANE, P. P TAHA, AHMAD A. see SHAWALI, AHMAD S	444 298	THAKUR, J. S. see RAO, G. N THAKUR, K. P.: A new interaction potential for	861
TALATI, A. M.: Co(II), Ni(II) & Cu(II) com-	270	alkali halides	376
plexes of substituted malonic acids	658	see Singh, B	631
Cu(II) chelates of 3,3'-(4,4'-biphenylene		THAKUR, S. B.: A simple synthesis of 2-(ω-carb-	
bisazo)-bis-2,4-pentanedione & 3-(phenyl-	767	oxyhexyl)cyclopentanone, a prostaglandin	000
azo)-2,4-pentanedione Ni(II) & Co(II) chelates of 2,3-dioxobutyr-	767	synthon Thallium(III): Kinetics & mechanism of electron	893
anilide-2-oxime	537	transfer reactions of aquo & coordinated	

	PAGE		PAGE
thallium(III): Part VI— Reduction of chloro- thallium(III) complexes by antimony(III) THARANATHAN, R. N.: Polysaccharides from the	100	TILAK, B. D. see DALI (née BERDE), H. M see Gogte, V. N 327, 1147, 1152 1234, 1238	1230 , 1227,
seed mucilage of <i>Ocimum basilicum</i> Linn Thenoyltrifluoroacetone: Synergic extraction of cobalt(II) from acetate buffers by mixtures	1164	Tin: Organic derivatives of tin: Part VII—Reactions of alkyltin triisopropoxides with bidentate ligands	399
of thenoyltrifluoroacetone & alcohols in ben- zene	1199	Sn-O bond	1193
1,3-Thiazino[2,3-a]isoquinolinium salts: Synthesis of 1,3-thiazino[2,3-a]isoquinolinium salts & related compounds	1242	Tin(IV): Complexes of tin(IV) with some tetradentate Schiff bases derived from salicylaldehyde & diamines	1105
THILLAICHIDAMBARAM, N. see JAYALAKSHMI, V. Thiocarbamides: Oxidation of mixtures of thiocarbamides: Part II — Oxidation of mixtures	441	Coordination complexes of some group (IV) halides: Preparation & infrared spectra of complexes of Ti(IV), Zr(IV), Hf(IV) &	
of 1-alkyl-3-arylthiocarbamides & thiocarbamide: Formation of 3-amino-5-alkylimino-4-aryl-1,2,4-Δ²-thiadiazolines Thiocyanate: Kinetic & analytical studies on the	962	Sn(IV) halides with pyruvonitrile as ligand Infrared spectral studies on the complexes of tin(IV) halides with 3-substituted pyridines	843
oxidation of thiocyanate by chromic acid in aqueous sulphuric acid medium	880	Thienyl tin(IV) compounds Titanium: Influence of oxalate & tartrate on	192. 623
Thiodithiazyl chloride: Preparation & characterization of thiodithiazyl chloride 2-Thiohydantoin: Cleavage of alkylmercapto	418	titanium-gallic acid/protocatechuic acid/sul- phosalicylic acid systems in weakly acidic medium	642
group & exocylic azamethine linkage in 2-thiohydantoin derivatives Thionyl iodide: Preparation of sulphur mono-	577	Titanium(III): Cinchonine complexes of titanium(III) & copper(II) Titanium(IV): Nature of species extracted from	111
iodide & thionyl iodide Thiophenes: Proton chemical shift in some	417	titanium(IV)-gallic acid-oxalic acid system by triisooctyl amine	865
condensed thiophenes Synthesis of thiophenes: Part III —Further variations in the substitution pattern	589	Organoxy titanium(IV) compounds: Part II — Titanium(IV) chelates Synthesis of titanium(IV) oximates	103 512
Part IV — Synthesis & reactions of some 2-aminothiophene-3-carboxylic acids	4	TIWARI, ISHWAR CHANDRA see BHARGAVA, P. N. Tl(I): Amperometric determination of Tl(I),	223
Thiosalicylic acid: Oxidation kinetics of thiosalicylic acid by ferricyanide ion in acid medium	1166	Sb(III) & V(IV) with lead(IV) acetate Complexes of 2-hydroxy-1-mercaptopyrimidine with Zn(II), Cd(II), Hg(II), Tl(I),	540
Spectral & magnetic studies on Ni(II), Cu(II), Rh(III), Pd(II) & Pt(II) com- plexes of thiosalicylic acid	769	Pb(II), Ag(I) & Au(III) Tl(III): Kinetic isotope effect in Tl(III) oxidation of alcohols	1096 990
Thiosinamine: Polarographic studies on cadmium & lead complexes of thiosinamine in aqueous & aqueous-methanolic solutions	174	Tl(I) nitrate: Theoretical e.m.f. for galvanic cells containing a single solid or molten Ag(I), Li(I), Na(I), K(I), Mg(II), Ca(II), Ba(II) &	770
Thiotrithiazyl chloride: Reaction of thiotrithiazyl chloride with anhydrous cobalt chloride Thiotropolone as a colorimetric extractive re-	761	Tl(I) nitrates as electrolytes Toddaculin: Nuclear prenylation of 5,7-di- hydroxycoumarin: Synthesis of coumarrayin	748
agent for Pt(IV)	1116	& toddaculin	29-
Thiourea: Thermal decomposition of the complexes of dithiocarbamate & substituted thiourea with Ni(II), Zn(II), Cd(II), C1(III) &	020	Tosylates: Elimination reaction of secondary alcohol tosylates in dimethyl sulphoxide TREHAN, I. R.: A convenient synthesis of	583-
Co(III)	966	2-methyl-5-oxo-4,5,6,7-tetrahydrobenzo[b]- furan 1,2,4-Triazine: Studies on 1,2,4-triazine deriva- tives: Part V— Behaviour of some derivatives	109
2,3-dichloroquinoxaline with thioureas Kinetics of reactions of thioureas with ethyl bromide, allyl chloride & benzyl		of 1,2,4-triazine towards phenylmagnesium bromide, methylating agents & Mannich	201
chloride in ethanol Thioxanthone oximes: Condensed heterotricycles: Beckmann rearrangement of xanthone	969	1,3,5-Triazine: Interaction of ethyl chloro- formate & 1-methyl-2,4-dithiobiuret: Forma-	301
& thioxanthone oximes as a route to di- benz[b, f][1,4]oxazepines & thiazepines Thorium(IV): Fluoro complex salts of thorium	247	tion of a novel complex compound & 1,3,5-triazine derivatives Triazene-N-oxides: Spectrophotometric studies	38
(IV) with methyl- & ethyl-ammonium fluorides, pyridinium, substituted pyridinium, quinolinium & anilinium fluorides & ethylene-		on mixed chelate formation — Vanadium(V) with tridentate triazene-N-oxides & bidentate phenylhydroxylamine derivatives	1110
diammonium & o-phenylenediammonium fluo-	1302	s-Triazolo[3,4-b][1,3,4]thiadiazines: Heterocyclic systems containing bridgehead nitrogen atom:	

	FAGE		FAGE
Part XVI — Syntheses of s-triazolo[3,4-b][1,3,		Ullmann condensation: Anomalous products of	
4]thiadiazines & related heterocycles	287	Ullmann condensation	1254
Tricyanobis(pyridine)nitrosyliron(II)	523	UMA, R.: Effect of heat treatment on the	
Triethylamine: Variation of internal pressure		activity of ZnO-Al ₂ O ₃ catalysts towards iso-	
in liquids & liquid mixtures: Benzene &		propanol decomposition	1314
triethylamine	610	Unona lawii Hook. f. & Thoms.: Flavanones	
Triisooctyl amine: Nature of species extracted		from the stem of <i>Unona lawii</i> Hook. f. &	
from titanium(IV)-gallic acid-oxalic acid sys-	965	Thoms.: Isolation of lawinal, desmethoxymatteucinol, desmethoxymatteucinol-7-methyl	
tem by triisooctyl amine 5,7,8-Trimethoxy-4-hydroxycoumarins: Studies	865	ether & a synthesis of lawinal	1033
in 4-hydroxycoumarins: Part IV — Synthesis		U ₃ O ₈ : Low temperature X-ray diffraction	1033
of 5,7,8-trimethoxy- & 5,6,7,8-tetramethoxy-		studies on U ₃ O ₈	752
4-hydroxycoumarins	1262	α-UO ₃ .H ₂ O: Influence of sample size on non-	
:2,6,10-Trimethyldodeca-1,6-trans-3-cis-11-tetra-		isothermal kinetics of dehydration of hydrated	
en-10-ol: Terpenoids: Part LXXIX — Syn-		oxalates of Mg(II), Ca(II) & Sr(II) & de-	
thesis of 2,6,10-trimethyldodeca-1,6-trans-3-		hydroxylation of Mg(OH) ₂ & α-UO ₃ .H ₂ O	1286
cis-11-tetraen-10-ol, a stereoisomer of fokienol	68	UPADHYAY, R. K. see MALIK, W. U	768
2,2,4-Trimethylpentane: Vapour pressures &		Uranium: Analysis of uranium by delayed	405
excess Gibbs energies for the system cyclo-	721	fission neutron counting method Uranyl: Stabilities of uranyl complexes of	405
hexane+iso-octane (2,2,4-trimethylpentane)	721 1021	methyl 3-mercaptopropionate	1004
TRIPATHI, O. N. see JAIN, P. C TRIPATHI, VIAJY SHANKAR: Synergic extraction	1041	UO ₂ (II): Stability constants of chelates of	1001
of cobalt(II) from acetate buffers by mixtures		VO(II), UO2(II), Hg(II) & Cd(II) with	
of thenoyltrifluoroacetone & alcohols in ben-		1-hydroxy-2-nitrosonaphthalene-4-sulphonic	
zene	1199	acid	539
2,3,4-Triphenylfurans: Antifertility agents: Part		URMIL RANI see VIG, O. P	68
IX — Synthesis of 2,3,4-triphenylfurans &		Usgaonkar, R. N. see Choksey, Indira	57
2,3,4-triphenyl-5-methylfurans	1144	see Karnik (née Mathure), Shobha	573
2,3,4-Triphenyl-5-methylfurans: Antifertility		see Patwardhan, S. S	661
agents: Part IX — Synthesis of 2,3,4-triphenylfurans & 2,3,4-triphenyl-5-methyl-			
furans 2,3,4-triphenyi-3-methyi-	1144	T7	
Triphenylphosphine sulphide: Complexes of tri-	1411	V (III): Chemistry of substituted sulphuric	
phenylphosphine sulphide: Part I — Nature		acids. Tare 12 - Medianesulpholiates of	
of the adducts of halides of Zn(II), Cd(II) &		V(III), Cr(III), Co(II), Ni(II) & Cu(II)	825
Hg(II) with triphenylphosphine sulphide	823	Diethoxyphosphato complexes of vanadium	
2,3 - trans - 3,4 - cis -2,3,4- Triphenyltetrahydro-		(III), chromium(III), manganese(II) &	
furans: Synthesis of 2,3-trans-3,4-cis- & 2,3-		copper (II)	827
trans - 3,4 - trans - 2,3,4 - triphenyltetrahydro-	226	V(IV): Amperometric determination of Tl(I), Sb(III) & V(IV) with lead(IV) acetate	540
furans 2,3 - trans - 3,4-trans - 2,3,4 - Triphenyltetrahydro-	336	V(V): Behaviour of vanadium(V) solutions in a	340
furans: Synthesis of 2,3-trans-3,4-cis- & 2,3-		mercury reductor	180
trans - 3,4 - trans - 2,3,4 - triphenyltetrahydro-		Kinetics of oxidation of glycerol by vana-	200
furans	336	dium(V) in sulphuric & perchloric acids	365
Tris(ethylenediamine)-iron(III) sulphate: Möss-		Spectrophotometric studies on mixed	
bauer study of tris(ethylenediamine)-iron(III) sulphate		chelate formation — Vanadium(V) with	
sulphate	996	tridentate triazene-N-oxides & bidentate	1110
2,3,6-Trisubstituted quinazolone-sulphonylthio-		phenylhydroxylamine derivatives	1110
ureas: Syntheses of some 2,3,6-trisubstituted	905	Vaghani, D. D. see Joshi, Vidya Vakognavine: Diterpene alkaloids: Structure	226
quinazolone-sulphonylthioureas	1045	of vakognavine	1219
TRIVEDI, B. K. see KUDAV, N. A TRIVEDI, K. N. see SHAH, D. O	1014	Valerate ions: Polarographic studies on the	141)
see Shaikh, Y. A	1262	complexes of Pd ²⁺ & Cd ²⁺ with valerate &	
Tryptamine: Synthesis of tryptamine analogs		isovalerate ions	655
of $3H$ -benz[e]- & $1H$ -benz[g]indole	1009	Vanadium: Solvent extraction of vanadium	
Tylophorinidine: Stereochemistry of tylophorini-		complexes with benzoylphenyl- & benzoyl-	
dine & tylophorinine Tylophorinine: Stereochemistry of tylophorini-	886	o-tolyl-hydroxylamines	901
Tylophorinine: Stereochemistry of tylophorini-	006	VARADARAJAN, R. see Anantakrishnan,	272
dine & tylophorinine	886	SEKHARIPURAM V VARMA, R. S. see PARTHASARATHY, M. R	373 518
		VASI, I. G.: Preparation of optically active	318
TT		hydantoins as potential antibacterials	1211
U(VI): Studies on the formation of complexes		VEERANAGAIAH, V.: Studies in the formation of	-22.1
of glutamine with Y(III), La(III), Ce(III) &		heterocyclic rings containing nitrogen: Part	
U(VI)	1322	XVII — Pyrolysis of 1,3-dibenzyl-2-substi-	
UDUPA, M. R. see Sejekan, B. G	533	tuted-5-methylbenzimidazolines	346
			1270
			1369

PAGE		PAGE
VENKAPPAYYA, D.: Morpholinium chloro- cadmates 525	WADIA, M. S. see NARAYANAN, C. R WADODKAR, K. N.: Reactions of 2'-hydroxy-	992
Thermal decomposition of the complexes of dithiocarbamate & substituted thiourea with Ni(II), Zn(II), Cd(II), Cr(III) & Co(III) 838 VENKATARAMAN, K. see DESHPANDE, V. H 431	4'-methoxydibenzoylmethane & α-bromo- 2'-hydroxy-5'-methyl-4-methoxydibenzoyl- methane with 2,4-dinitrophenylhydrazine WAGH, A. P.: Addition reactions of exomethy- lene group in 3-carboxy-2-methylene-	224
see Parameswaran, V 785 Venkataramani, P. S. see Maya 648 Venkataramu, S. D. see Banerjee, D. K 1119	4-(3',4',5'-trimethoxyphenyl)-6,7-dimethoxy- 1-tetralone WAKHARKAR, P. V. see DESHPANDE, V. H	923 431
VENKATASUBRAMANIAN, N. see BALAKRISH- NAN, M 597 see Srinivasan, V. S 990	WILLIAMS, DAVID K. see STERMITZ, FRANK R. Water: Polarography of nicotinamide complexes of Cd(II) in water-formamide	1249
VENKATESWARLU, A. see NAGARAJAN, K. 227, 236, 247, 252, 258, 270	mixtures Thermo-osmosis of water through bento-	765
VENKATESWARLU, CH. see BISWAS, S. P 865 see Krishnamoorthy, T. S 642 VENKOBA RAO, G. see BALAKRISHNAN, M 597 Verazine: Synthetic studies in steroidal sapo-	nite	1276
genins & alkaloids: Part XI — Synthesis of verazine 1245	Xanthate: Simultaneous determination of	002
VERGHESE, J. see SARASWATHI, G. N 561 VERMA, MAN MOHAN see TREHAN, I. R 109 VERMA, RAJENDAR D. see PAUL, R. C. 418, 761	lead & silver: Extraction of lead as xanthate Xanthone oximes: Condensed heterotricycles: Beckmann rearrangement of xanthone &	. 903
VERMA, Ş. M.: Conformational analysis about N-N' bond by NMR spectroscopy: N'-Deriva- tives of N-amino-9,10-dihydroanthracene-	thioxanthone oximes as a route to dibenz- [b,f][1,4]oxazepines & thiazepines Xanthorin: Chemical investigations on Cassia occidentalis Linn.: Part II — Isolation of	247
9,10-endo-α-methyl-α,β-succinimide 586 Vermiculite: Adsorption of methylene blue, crystal violet & malachite green on ben-	islandicin, helminthosporin, xanthorin & NMR spectral studies of cassiollin & its derivatives Xanthorrhizol: Studies in terpenoids: Part	1042
tonite, vermiculite, kaolinite, asbestos & feldspar 1187	XXIX — Synthesis of xanthorrhizol o-Xylene: Thermodynamics of binary mixtures:	938
VIG, A. K. see VIG, O. P	Excess Gibbs energies & surface tension of binary mixtures of cyclohexane with o-xylene, m-xylene, p-xylene & ethylbenzene in surface phase	714
10-ol, a stereoisomer of fokienol 68 Part LXXXI — Synthesis of (±)-khusitene 1050 Part LXXXII — Synthesis of ethyl	m-Xylene: Thermodynamics of binary mixtures: Excess Gibbs energies & surface tension of binary mixtures of cyclohexane with ο-xylene, m-xylene, p-xylene & ethylbenzene in surface	
11-(2-methylcyclohex-2-en-l-yl)-undec- trans-9-enoate 1158 VIJ, V. K. see HARJIT SINGH 1242	phase p-Xylene: Friedel-Crafts condensation of the lactone of 4-methyl-2-hydroxycyclohexylace-	714
VIJAY KUMAR see RAHMAN, S. M. F 899 Vilsmeier-Haack reaction: Studies in the Vilsmeier-Haack reaction: Part IX— Reaction of lactams with N-methylpyrroli-	tic acid with aromatic hydrocarbons: Part II—Condensation with p-xylene & tetralin Thermodynamics of binary mixtures: Excess Gibbs energies & surface tension	958
done/phosphorus oxychloride reagent 940 Vilsmeier-Haack reaction with steroid lactams 1210	of binary mixtures of cyclohexane with o-xylene, m-xylene, p-xylene & ethylbenzene in surface phase	714
VIRUPAKSHA REDDY, K. see SENTHILNATHAN, V. P 1207		
VISHWANATHAN, B.: Oxidation of propylene on a manganese molybdate catalyst 205	$Y_{(III)}$: Complexes of nitroalizarin with $Z_{n}(II)$,	
see RAJARAM, P1267Visnaginone: Oxidation of styryl derivatives of khellinone & visnaginone1052	Mn(II), Co(II), Ni(II) & Y(III) Studies on the formation of complexes of glutamine with Y(III), La(III), Ce(III) &	. 899
VISWANATHAN N.: Structure & synthesis of lasiocephalin 450	U(VI) 718, 72	
see Govindachari, T. R. 886 see Joshi, B. S. 894	YADAVA, K. D. S. see RASTOGI, R. P. 687, 974	
VO(II): Stability constants of chelates of VO(II), UO ₂ (II), Hg(II) & Cd(II) with 1-hydroxy-2-nitrosonaphthalene-4-sulphonic	YADAVA, K. L. see YADAVA, R. R YADAVA, M. L. see RASTOGI, R. P YADAVA, R. R.: Kinetics of bromination of	1175
acid 539	trans-cinnamic acid	1175

	PAGE		PAGE
	1, 796, 19, 802	Complexes of nitroalizarin with Zn(II), Mn(II), Co(II), Ni(II) & Y(II)	899
YOGANARASIMHAN, S. R.: Infrared absorption spectra of polymorphs of potassium dichromate	176	Complexes of 1-phenyl-3-(2-pyridyl)-2-thiourea with Co(II), Ni(II), Cu(I), Zn(II), Pd(II), Cd(II), Pt(II), Bi(III) &	
Younes, M. El-Garby: Chemical examination of local plants: Part XI — Comparative study of the constituents of different parts of		Rh(III)	845
Egyptian Althaea rosea see Hassan, Kh. M	1019 1031 1019	of Zn(II), Cd(II) & Hg(II) with triphenyl- phosphine sulphide Cu(II), Zn(II), Ni(II), Co(II) & Mn(II)	823
see Osman, A. M	1019	chelates of N-phenyl-2-furohydroxamic acid	534
Z _{AHER} , H. A.: Reactions of 2-p-anisyl-3(4H), 1-benzoxazin-4-one with ammonia, primary		Metal chelates with Schiff bases: Part I—Co(II), Ni(II), Cu(II), Zn(II) & Cd(II) complexes with ethyl 3-[(o-arsonophenyl)-	
amines, hydrazine, phenylhydrazine & Grignard reagents ZAHER, M. R. see EL-NAGGAR, A. M	1212 1161	iminobutyrate & N(1-methyl-3-oxo- butylidene)-o-arsanilic acid Mixed complexes of Ni(II), Zn(II) & Cd(II)	830
ZAIDI, S. A. A.: Complexes of Ge(IV) & Sn(IV) halides with substituted anilines Spectrophotometric studies on the com-	429	with ethylenediamine, monoamino acids & polyphenols Polarographic microdetermination of Cd(II),	214
plexes of 1-(2-pyridylazo)-2-naphthol with GeCl ₄ , SnCl ₄ & SnBr ₄ Symmetrical & unsymmetrical alkyldithio-	540	Zn(II) & Ba(II) in organometallic compounds after oxygen flask combustion	1113
carbamate complexes of Sn(IV) halides & Ge(IV) chloride	1197 1327	Polarographic studies on Zn(II)-pyrido- xine system in water, water-formamide &	531
ZAMAN, ASIF see AHMAD, S. AZIZ ZEENAT FAROOO see AHMAD, M. S Zero points of charge: Correlation of zero points	452	water-dimethylformamide media Preparation & spectroscopic studies on 4,4'-bipyridine complexes with Co(II),	331
of charge of solid oxides & hydroxides with partial charge of surface oxygen atom Zinc: Evaluation of stability constants from polar-	170	Ni(II), Zn(II), Cd(II) & Hg(II) thiocyanates Stability constants of 5-chloro-2-hydroxy-	107
ographic data of irreversible processes: Mixed complexes of zinc with glycine & α-alanine Zinc acetate: Kinetics of mechanism of phenol-	868	butyrophenone complexes with Cu(II), Ni(II), Co(II), Zn(II) & Mn(II) Studies in mixed ligand complexes: Part	217
formaldehyde reactions: Part V—Zinc acetate-catalysed self-condensation & condensation with phenol of 2,6- & 2,4-dimethylol-		VIII — Formation constants of the complexes of Cu(II), Ni(II), Zn(II) & Cd(II) with dipyridyl/o-phenanthroline	
phenols ZINGDE, M. D. see MUKHERJEE, R. N Zirconium tetrachloride as a catalyst in the	802 848	as primary ligands & ethylene- & propylenediamines as secondary ligands Thermal decomposition of the complexes	402
Friedel-Crafts reaction Zn(II): Adsorption of Zn(II), Cd(II) & Hg(II) complexes with p-dimethylaminoanil of	1015	of dithiocarbamate & substituted thiourea with Ni(II), Zn(II), Cd(II), Cr(III) &	838
methyl glyoxal on silica gel Chemistry of substituted sulphuric acids:	768	Co(III) ZnO-Al ₂ O ₃ : Effect of heat treatment on the activity of ZnO-Al ₂ O ₃ catalysts towards iso-	
Part VIII — Methanesulphonates of Sn(II), Sn(IV) & Zn(II) Co(II), Ni(II), Cu(II), Zn(II), Cd(II) &	651	propanol decomposition Zr: Manganese dioxide as sorber in the determination of Ce, Ru, Zr & Cs fission nuclides	1314
Pd(II) complexes of 1-carbamyl-3,4,5- trimethylpyrazole Complex compounds of N-benzene-	1107	from seawater by neutron activation analysis Zr(IV): Coordination complexes of some	200
sulphonylglycines with some metal ions: Part XVI — Formation constants of Zn(II) chelates of N-benzenesulphonyl-		group (IV) halides: Preparation & infrared spectra of complexes of Ti(IV), Zr(IV), Hf(IV) & Sn(IV) halides with pyruvonitrile	
L-cysteine Complexes of 2-hydroxy-1-mercaptopyrimidine with Zn(II), Cd(II), Hg(II), Tl(I),	636	as ligand ZUTSHI, KAMALA: Polarography of nicotinamide complexes of Cd(II) in water-formamide	843
Pb(II). Ag(I) & Au(III)	1096	mixtures	765



